DDEC® Reports - Trip Activity

Print Date: 3/9/2017 6:23 PM

NTSB

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Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6	mi	Trip Time	3098:58:44	
Trip Fuel	10953.04	gal	Fuel Consumption	3.53	gal/h
Fuel Economy	5.68	mpg	Idle Time	1846:07:36	
Avg Drive Load	40	%	Idle Percent	59.57	%
Avg Vehicle Speed	49.7	mph	Idle Fuel	2660.04	gal
			Parked Regen Time	2:19:46	

Driving

Time	1250:31:22	
Percent	40.35	%
Fuel	8293.00	gal
Economy	7.50	mpg

Vehicle Speed Limiting

Time	424:42:01	
Percent	33.96	%
Distance	29937.9	mi
Fuel	3104.13	gal

Top Gear

Time	619:24:10	
Percent	49.53	%
Distance	42586.2	mi
Fuel	4805.50	gal

Top Gear - 1

Time	149:34:04	
Percent	11.96	%
Distance	8670.9	mi
Fuel	1169.25	gal

Cruise

Time	225:41:46	
Percent	18.05	%
Distance	15758.9	mi
Fuel	1839.50	gal

Top Gear Cruise

Time	217:44:18	
Percent	17.41	%
Distance	15228.4	mi
Fuel	1786.75	gal

Speeding A(>=66 and <71 mph)

Count	52844	
Time	283:17:31	
Percent	22.65	%

Speeding B(>=71 mph)

Count	41136	
Time	245:45:18	
Percent	19.65	%

Highest Speed **76.0 mph**
Occurred 06/25/16 1:03:46 (EST)

Coasting Time **0:00:00**

Coasting Percent **0.00 %**

Stop Idle

Time	1693:57:39	
Percent	54.66	%
Fuel	2428.38	gal

Over Rev Limit **1800 rpm**

Count	977	
Time	2:04:02	
Percent	0.07	%

Highest RPM **2321 rpm**
Occurred 09/16/16 15:35:22 (EST)

Diag. Records **82**
Hard Brake Count **33**
Firm Brake Count **2408**
Brake Count **51038**
Eng. Brake Time **19:26:40**

Fan On Time

Total Time	3:44:46
Engine System	3:27:16
Manual	0:00:30
A/C	0:00:00
DPF Fan Time	0:17:00

Engine Utilization **16.79 %**

Vehicle Utilization **6.78 %**

DPF Regeneration

Parked Completed	5	
Parked Regen Fuel	10.17	gal
Driving Completed	34	
Driving Regen Fuel	47.62	gal

Diesel Exhaust Fluid (DEF)

Trip Fluid	269.13	gal
Trip Percent	2.46	%
Trip Economy	230.99	mpg
Driving Fluid	247.60	gal
Driving Economy	251.07	mpg

Optimized Idle Time

Active	0:00:00
Run	0:00:00
Battery	0:00:00
Engine Temp.	0:00:00
Thermostat	0:00:00
Extended Idle	0:00:00
Continuous	0:00:00

Optimized Idle Battery Charging Starts

Normal Count	0
Alternate Count	0
Continuous Run	0

DDEC® Reports - Trip Activity

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NTSB

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Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6	mi	Trip Time	3098:58:44	
Trip Fuel	10953.04	gal	Fuel Consumption	3.53	gal/h
Fuel Economy	5.68	mpg	Idle Time	1846:07:36	
Avg Drive Load	40	%	Idle Percent	59.57	%
Avg Vehicle Speed	49.7	mph	Idle Fuel	2660.04	gal
			Parked Regen Time	2:19:46	

Predictive Cruise Control			**VSG(PTO)**		
Time	0:00:00		Total Time	1204:20:39	
Percent	0.00	%	Percent	38.86	%
Distance	0.0	mi	Total Fuel	1910.25	gal
Fuel	0.00	gal	Working Time	0:01:12	
			Working Fuel	0.00	gal

DDEC® Reports - Monthly Activity

Print Date: 3/9/2017 6:23 PM

NTSB

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Partial Month: February, 2017 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	1154.0	mi	Trip Time	61:25:25	
Trip Fuel	217.38	gal	Fuel Consumption	3.54	gal/h
Fuel Economy	5.31	mpg	Idle Time	36:43:00	
Avg Drive Load	40	%	Idle Percent	59.78	%
Avg Vehicle Speed	46.7	mph	Idle Fuel	51.38	gal
			Parked Regen Time	0:00:00	

Driving

Time	24:42:25	
Percent	40.22	%
Fuel	166.00	gal
Economy	6.95	mpg

Vehicle Speed Limiting

Time	6:58:41	
Percent	28.24	%
Distance	488.5	mi
Fuel	57.00	gal

Top Gear

Time	10:23:15	
Percent	42.04	%
Distance	712.6	mi
Fuel	85.88	gal

Top Gear - 1

Time	3:29:10	
Percent	14.11	%
Distance	197.8	mi
Fuel	27.63	gal

Cruise

Time	0:06:15	
Percent	0.42	%
Distance	7.4	mi
Fuel	0.63	gal

Top Gear Cruise

Time	0:06:06	
Percent	0.41	%
Distance	7.2	mi
Fuel	0.63	gal

Speeding A(>=66 and <71 mph)

Count	804	
Time	4:19:59	
Percent	17.54	%

Speeding B(>=71 mph)

Count	558	
Time	4:14:04	
Percent	17.14	%

Highest Speed **72.5 mph**
Occurred 03/02/17 19:20:37 (EST)

Coasting Time **0:00:00**

Coasting Percent **0.00 %**

Stop Idle

Time	33:34:48	
Percent	54.67	%
Fuel	47.13	gal

Over Rev Limit **1800 rpm**

Count	0	
Time	0:00:07	
Percent	0.00	%

Highest RPM **2120 rpm**
Occurred 02/27/17 7:09:19 (EST)

Diag. Records **0**
Hard Brake Count **1**
Firm Brake Count **57**
Brake Count **1243**
Eng. Brake Time **0:01:33**

Fan On Time

Total Time	0:00:00
Engine System	0:00:00
Manual	0:00:00
A/C	0:00:00
DPF Fan Time	0:00:00

Engine Utilization **9.48 %**

Vehicle Utilization **3.81 %**

DPF Regeneration

Parked Completed	0	
Parked Regen Fuel	0.00	gal
Driving Completed	1	
Driving Regen Fuel	1.47	gal

Diesel Exhaust Fluid (DEF)

Trip Fluid	5.35	gal
Trip Percent	2.46	%
Trip Economy	215.89	mpg
Driving Fluid	5.08	gal
Driving Economy	227.38	mpg

Optimized Idle Time

Active	0:00:00
Run	0:00:00
Battery	0:00:00
Engine Temp.	0:00:00
Thermostat	0:00:00
Extended Idle	0:00:00
Continuous	0:00:00

Optimized Idle Battery Charging Starts

Normal Count	0
Alternate Count	0
Continuous Run	0

DDEC® Reports - Monthly Activity

Print Date: 3/9/2017 6:23 PM

NTSB

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Partial Month: February, 2017 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	1154.0	mi	Trip Time	61:25:25	
Trip Fuel	217.38	gal	Fuel Consumption	3.54	gal/h
Fuel Economy	5.31	mpg	Idle Time	36:43:00	
Avg Drive Load	40	%	Idle Percent	59.78	%
Avg Vehicle Speed	46.7	mph	Idle Fuel	51.38	gal
			Parked Regen Time	0:00:00	

Predictive Cruise Control			**VSG(PTO)**		
Time	0:00:00		Total Time	22:06:00	
Percent	0.00	%	Percent	35.98	%
Distance	0.0	mi	Total Fuel	34.88	gal
Fuel	0.00	gal	Working Time	0:00:02	
			Working Fuel	0.00	gal

DDEC® Reports - Monthly Activity

Print Date: 3/9/2017 6:23 PM

NTSB

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Month: January, 2017 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	2214.3	mi	Trip Time	140:13:38	
Trip Fuel	425.09	gal	Fuel Consumption	3.03	gal/h
Fuel Economy	5.21	mpg	Idle Time	91:47:56	
Avg Drive Load	38	%	Idle Percent	65.46	%
Avg Vehicle Speed	45.7	mph	Idle Fuel	129.72	gal
			Parked Regen Time	0:33:10	

Driving

Time	48:25:42	
Percent	34.54	%
Fuel	295.38	gal
Economy	7.50	mpg

Vehicle Speed Limiting

Time	14:07:05	
Percent	29.15	%
Distance	1001.5	mi
Fuel	105.38	gal

Top Gear

Time	22:00:54	
Percent	45.46	%
Distance	1513.7	mi
Fuel	170.25	gal

Top Gear - 1

Time	4:54:32	
Percent	10.14	%
Distance	280.2	mi
Fuel	36.63	gal

Cruise

Time	10:40:53	
Percent	22.06	%
Distance	746.8	mi
Fuel	86.00	gal

Top Gear Cruise

Time	10:34:01	
Percent	21.82	%
Distance	739.8	mi
Fuel	85.38	gal

Speeding A(>=66 and <71 mph)

Count	1722	
Time	11:47:11	
Percent	24.34	%

Speeding B(>=71 mph)

Count	1303	
Time	6:42:38	
Percent	13.86	%

Highest Speed **73.0 mph**
Occurred 02/02/17 14:11:22 (EST)

Coasting Time **0:00:00**

Coasting Percent **0.00 %**

Stop Idle

Time	84:19:34	
Percent	60.14	%
Fuel	116.63	gal

Over Rev Limit **1800 rpm**

Count	14	
Time	0:01:34	
Percent	0.02	%

Highest RPM **2228 rpm**
Occurred 02/24/17 23:53:11 (EST)

Diag. Records **2**
Hard Brake Count **0**
Firm Brake Count **71**
Brake Count **2178**
Eng. Brake Time **0:57:48**

Fan On Time

Total Time	0:00:30
Engine System	0:00:30
Manual	0:00:00
A/C	0:00:00
DPF Fan Time	0:00:00

Engine Utilization **19.48 %**

Vehicle Utilization **6.73 %**

DPF Regeneration

Parked Completed	1	
Parked Regen Fuel	2.34	gal
Driving Completed	1	
Driving Regen Fuel	2.62	gal

Diesel Exhaust Fluid (DEF)

Trip Fluid	10.25	gal
Trip Percent	2.41	%
Trip Economy	216.02	mpg
Driving Fluid	9.43	gal
Driving Economy	234.91	mpg

Optimized Idle Time

Active	0:00:00
Run	0:00:00
Battery	0:00:00
Engine Temp.	0:00:00
Thermostat	0:00:00
Extended Idle	0:00:00
Continuous	0:00:00

Optimized Idle Battery Charging Starts

Normal Count	0
Alternate Count	0
Continuous Run	0

DDEC® Reports - Monthly Activity

Print Date: 3/9/2017 6:23 PM

NTSB

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Month: January, 2017 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	2214.3	mi	Trip Time	140:13:38	
Trip Fuel	425.09	gal	Fuel Consumption	3.03	gal/h
Fuel Economy	5.21	mpg	Idle Time	91:47:56	
Avg Drive Load	38	%	Idle Percent	65.46	%
Avg Vehicle Speed	45.7	mph	Idle Fuel	129.72	gal
			Parked Regen Time	0:33:10	

Predictive Cruise Control			**VSG(PTO)**		
Time	0:00:00		Total Time	56:22:32	
Percent	0.00	%	Percent	40.20	%
Distance	0.0	mi	Total Fuel	87.00	gal
Fuel	0.00	gal	Working Time	0:00:03	
			Working Fuel	0.00	gal

DDEC® Reports - Monthly Activity

Print Date: 3/9/2017 6:23 PM

NTSB

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( ) -

Month: December, 2016 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	4943.0	mi	Trip Time	323:32:30	
Trip Fuel	986.24	gal	Fuel Consumption	3.05	gal/h
Fuel Economy	5.01	mpg	Idle Time	214:35:09	
Avg Drive Load	38	%	Idle Percent	66.32	%
Avg Vehicle Speed	45.4	mph	Idle Fuel	302.24	gal
			Parked Regen Time	1:05:13	

Driving

Time	108:57:21	
Percent	33.68	%
Fuel	684.00	gal
Economy	7.23	mpg

Vehicle Speed Limiting

Time	27:21:01	
Percent	25.10	%
Distance	1936.8	mi
Fuel	200.50	gal

Top Gear

Time	43:33:37	
Percent	39.98	%
Distance	2965.8	mi
Fuel	337.25	gal

Top Gear - 1

Time	15:35:07	
Percent	14.30	%
Distance	910.9	mi
Fuel	118.25	gal

Cruise

Time	23:53:26	
Percent	21.93	%
Distance	1669.3	mi
Fuel	199.38	gal

Top Gear Cruise

Time	22:14:08	
Percent	20.41	%
Distance	1557.7	mi
Fuel	187.38	gal

Speeding A(>=66 and <71 mph)

Count	3745	
Time	20:50:23	
Percent	19.13	%

Speeding B(>=71 mph)

Count	2865	
Time	14:45:15	
Percent	13.54	%

Highest Speed **74.5 mph**
Occurred 01/20/17 18:42:20 (EST)

Coasting Time **0:00:00**

Coasting Percent **0.00 %**

Stop Idle

Time	199:04:11	
Percent	61.53	%
Fuel	275.25	gal

Over Rev Limit **1800 rpm**

Count	38	
Time	0:04:43	
Percent	0.02	%

Highest RPM **2233 rpm**
Occurred 01/09/17 21:27:02 (EST)

Diag. Records **3**
Hard Brake Count **3**
Firm Brake Count **226**
Brake Count **4828**
Eng. Brake Time **0:53:27**

Fan On Time

Total Time	0:58:59
Engine System	0:41:59
Manual	0:00:00
A/C	0:00:00
DPF Fan Time	0:17:00

Engine Utilization **44.94 %**

Vehicle Utilization **15.13 %**

DPF Regeneration

Parked Completed	2	
Parked Regen Fuel	4.87	gal
Driving Completed	5	
Driving Regen Fuel	8.61	gal

Diesel Exhaust Fluid (DEF)

Trip Fluid	23.82	gal
Trip Percent	2.42	%
Trip Economy	207.51	mpg
Driving Fluid	21.94	gal
Driving Economy	225.30	mpg

Optimized Idle Time

Active	0:00:00
Run	0:00:00
Battery	0:00:00
Engine Temp.	0:00:00
Thermostat	0:00:00
Extended Idle	0:00:00
Continuous	0:00:00

Optimized Idle Battery Charging Starts

Normal Count	0
Alternate Count	0
Continuous Run	0

DDEC® Reports - Monthly Activity

Print Date: 3/9/2017 6:23 PM

NTSB

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( ) -

Month: December, 2016 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	4943.0	mi	Trip Time	323:32:30	
Trip Fuel	986.24	gal	Fuel Consumption	3.05	gal/h
Fuel Economy	5.01	mpg	Idle Time	214:35:09	
Avg Drive Load	38	%	Idle Percent	66.32	%
Avg Vehicle Speed	45.4	mph	Idle Fuel	302.24	gal
			Parked Regen Time	1:05:13	

Predictive Cruise Control			**VSG(PTO)**		
Time	0:00:00		Total Time	129:00:53	
Percent	0.00	%	Percent	39.88	%
Distance	0.0	mi	Total Fuel	202.38	gal
Fuel	0.00	gal	Working Time	0:00:05	
			Working Fuel	0.00	gal

DDEC® Reports - Configuration

Print Date: 3/9/2017 6:23 PM

NTSB

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Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6	mi	Trip Time	3098:58:44	
Trip Fuel	10953.04	gal	Fuel Consumption	3.53	gal/h
Fuel Economy	5.68	mpg	Idle Time	1846:07:36	
Avg Drive Load	40	%	Idle Percent	59.57	%
Avg Vehicle Speed	49.7	mph	Idle Fuel	2660.04	gal
			Parked Regen Time	2:19:46	

Hard Brake Limit	7.0	mph/s		
Stop Idle Limit	5	min		
Top Gear Limit	17	rpm/mph		
Top Gear-1 Limit	20	rpm/mph	Learned On:	02/26/2017 (EST)
ECM S/W	R34_00_000A			
ECM Type	DDEC-CPC4			
Config. Change	03/09/2017 (EST)			
Idle Method	VSS			
Idle-Load Limit	-			
Idle-RPM Limit	-			
Working PTO RPM Limit	900	rpm		
Working PTO Load Limit	30	%		
Firm Brake Limit	4	mph/s		
Reset Lockout	No			
Fleet Time Zone	-5.0	h		
Maintenance Visual Reminder:				
Enable	No			
Percent	-			

Vehicle Speed Bands (mph)	10	20	30	40	50	55	60	66	71
Engine Speed Bands (rpm)	700	1000	1200	1300	1400	1500	1600	1700	1800
Percent Load Bands (%)	10	20	30	40	50	60	70	80	90

Trip Reset Status 4 Extracted but did not reset!

DDEC® Reports - Life-To-Date

Print Date: 3/9/2017 6:23 PM

NTSB

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Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6	mi	Trip Time	3098:58:44	
Trip Fuel	10953.04	gal	Fuel Consumption	3.53	gal/h
Fuel Economy	5.68	mpg	Idle Time	1846:07:36	
Avg Drive Load	40	%	Idle Percent	59.57	%
Avg Vehicle Speed	49.7	mph	Idle Fuel	2660.04	gal
			Parked Regen Time	2:19:46	

Total Distance	62165.5	mi	Avg. Drive Load	40	%
Total Time	3098:58:44		**Optimized Idle Time**		
Total Fuel	10951.23	gal	Active Time	0:00:00	
Overall Fuel Economy	5.68	mpg	Run Time	0:00:00	
Avg Vehicle Speed	20.06	mph	**Optimized Idle Battery Charging Starts**		
Idle Time	1846:07:36		Normal Count	0	
Idle Percent	59.57	%	Alternate Count	0	
Idle Fuel	2659.67	gal	Continuous Run	0	
			Fan On Time		
VSG(PTO) Total Time	1204:20:39		Total Time	3:27:46	
VSG(PTO) Percent	38.86	%	Engine System	3:27:16	
VSG(PTO) Total Fuel	1909.88	gal	Manual	0:00:30	
VSG(PTO) Working Time	0:01:12		A/C	0:00:00	
VSG(PTO) Working Fuel	0.00	gal	DPF Fan Time	0:17:00	
Cruise Percent	18.01	%	**Peak Road Speed**	**76.0**	**mph**
Cruise Time	225:41:46		Occurred	06/25/16 01:03 (EST)	
Eng. Brake Time	19:26:40		**Peak Engine RPM**	**2320**	**rpm**
Revolutions/mi	2800		Occurred	09/16/16 15:35 (EST)	
Average RPM	936		Parked Regen Fuel	10.17	gal
DPF Regeneration			Driving Regen Fuel	47.65	gal
Parked Completed	5		Parked Regen Time	2:19:46	
Occurred	02/16/17 16:11 (EST)		**Diesel Exhaust Fluid (DEF)**		
Driving Completed	34		Total Fluid	269.13	gal
Occurred	03/03/17 09:12 (EST)		Total Percent	2.46	%
Predictive Cruise Control			Total Economy	230.99	mpg
Time	0:00:00		Driving Fluid	248.00	gal
Percent	0.00	%	Driving Economy	250.67	mpg

DDEC® Reports - Vehicle Speed/RPM

Print Date: 3/9/2017 6:23 PM

NTSB

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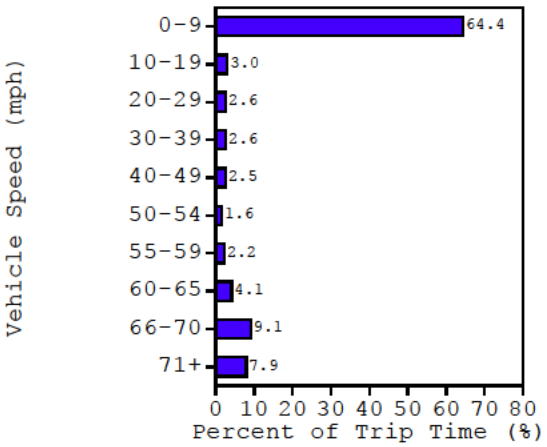
( ) -

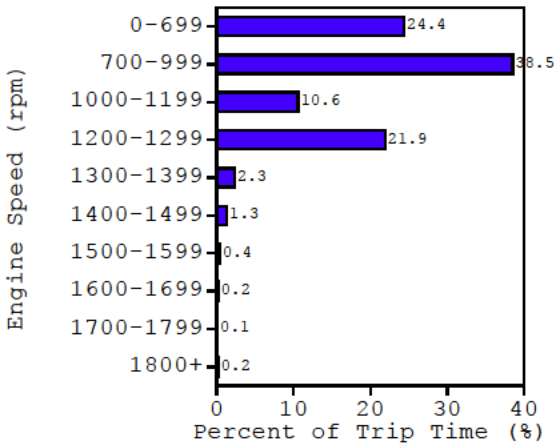
Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6 mi	Trip Time	3098:58:44
Trip Fuel	10953.04 gal	Fuel Consumption	3.53 gal/h
Fuel Economy	5.68 mpg	Idle Time	1846:07:36
Avg Drive Load	40 %	Idle Percent	59.57 %
Avg Vehicle Speed	49.7 mph	Idle Fuel	2660.04 gal
		Parked Regen Time	2:19:46

Vehicle Speed Histogram



Engine Speed Histogram



Percent of Trip Time in Speed and RPM Table

Vehicle Speed (mph)

Engine RPM	0- 9	10-19	20-29	30-39	40-49	50-54	55-59	60-65	66-70	71+	Total
0- 699	23.5	0.9									24.4
700- 999	36.9	0.4	0.2	0.3	0.4	0.2	0.1				38.5
1000-1199	0.9	0.6	1.6	0.8	0.9	1.1	1.5	2.4	0.9		10.6
1200-1299	2.9	0.2	0.4	0.6	0.7		0.5	1.0	7.9	7.7	21.9
1300-1399	0.1	0.2	0.2	0.4	0.5			0.7	0.1		2.3
1400-1499	0.1	0.2	0.1	0.3		0.3			0.1	0.1	1.3
1500-1599		0.2		0.1							0.4
1600-1699		0.1									0.2
1700-1799		0.1									0.1
1800+		0.1								0.1	0.2
Total	64.4	3.0	2.6	2.6	2.5	1.6	2.2	4.1	9.1	7.9	
Brakes	14166	10112	7557	5862	4251	2018	2114	2579	2220	159	51038
Hard Brakes			5	11	10		1	3	3		33
Firm Brakes		214	959	665	312	93	69	60	36		2408

Note: This table contains values <0.005 percent of trip time

DDEC® Reports - Engine Load/RPM

Print Date: 3/9/2017 6:23 PM

NTSB

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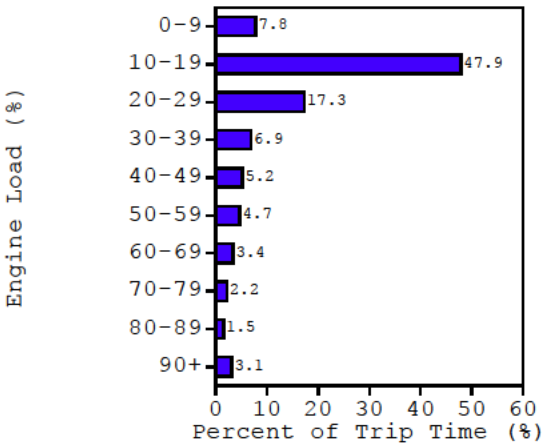
( ) -

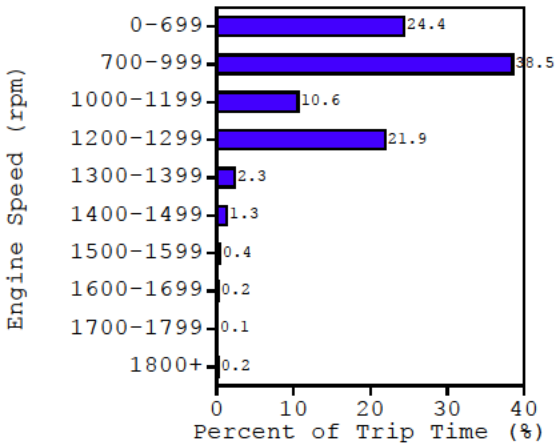
Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6 mi	Trip Time	3098:58:44
Trip Fuel	10953.04 gal	Fuel Consumption	3.53 gal/h
Fuel Economy	5.68 mpg	Idle Time	1846:07:36
Avg Drive Load	40 %	Idle Percent	59.57 %
Avg Vehicle Speed	49.7 mph	Idle Fuel	2660.04 gal
		Parked Regen Time	2:19:46

Engine Load Histogram



Engine Speed Histogram



Percent of Trip Time in Load and RPM Table

Engine Load (%)

Engine RPM	0- 9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	Total
0- 699	0.5	11.7	9.4	2.5	0.2						24.4
700- 999	0.8	31.0	5.0	0.8	0.3	0.3	0.1				38.5
1000-1199	3.0	1.1	1.0	1.2	1.1	1.0	0.8	0.5	0.3	0.6	10.6
1200-1299	2.4	3.8	1.5	2.1	3.1	3.0	2.1	1.4	0.9	1.7	21.9
1300-1399	0.5	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.4	2.3
1400-1499	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.3
1500-1599	0.1						0.1			0.1	0.4
1600-1699											0.2
1700-1799											0.1
1800+	0.1									0.1	0.2
Total	7.8	47.9	17.3	6.9	5.2	4.7	3.4	2.2	1.5	3.1	

Note: This table contains values <0.005 percent of trip time

DDEC® Reports - Over Speed/Over Rev

Print Date: 3/9/2017 6:23 PM

NTSB

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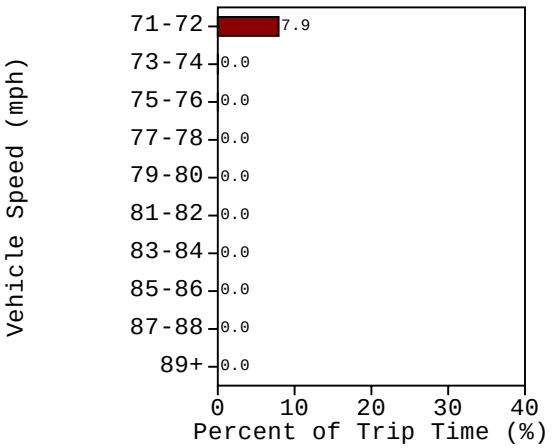
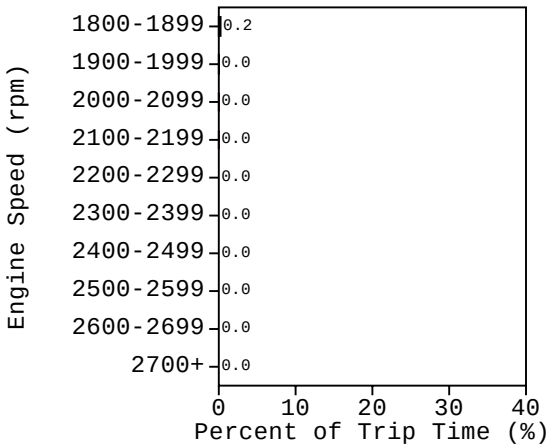
Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6 mi	Trip Time	3098:58:44
Trip Fuel	10953.04 gal	Fuel Consumption	3.53 gal/h
Fuel Economy	5.68 mpg	Idle Time	1846:07:36
Avg Drive Load	40 %	Idle Percent	59.57 %
Avg Vehicle Speed	49.7 mph	Idle Fuel	2660.04 gal
		Parked Regen Time	2:19:46

Over Speed Histogram



Over Rev Histogram



Percent of Trip Time in Over Speed and Over Rev Bands

Vehicle Speed(mph)

71-72	73-74	75-76	77-78	79-80	81-82	83-84	85-86	87-88	89+
7.91	0.02	<0.005							

Engine Speed(rpm)

1800 1899	1900 1999	2000 2099	2100 2199	2200 2299	2300 2399	2400 2499	2500 2599	2600 2699	2700+
0.23	<0.005	<0.005	<0.005						

DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

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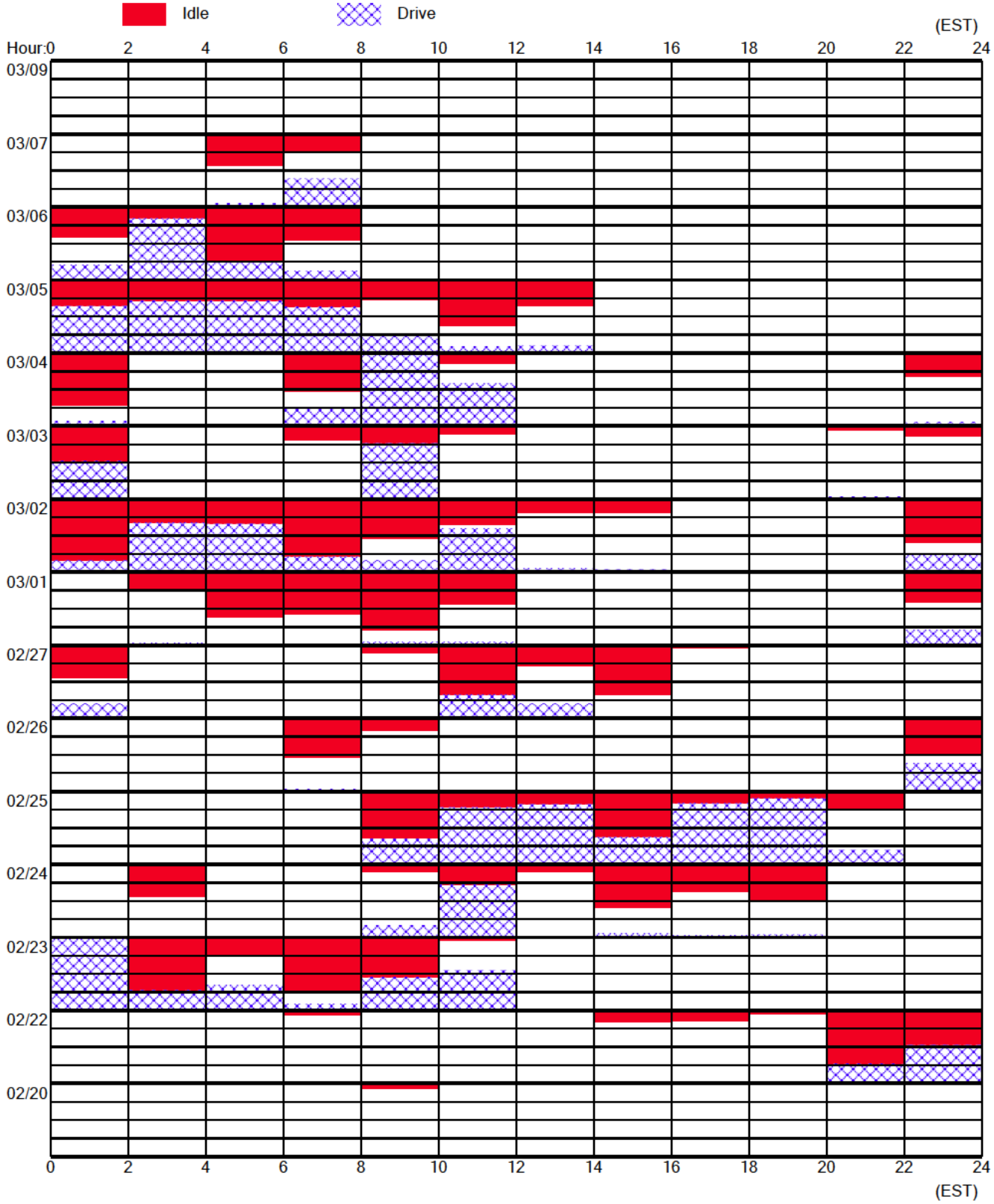
Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152



DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

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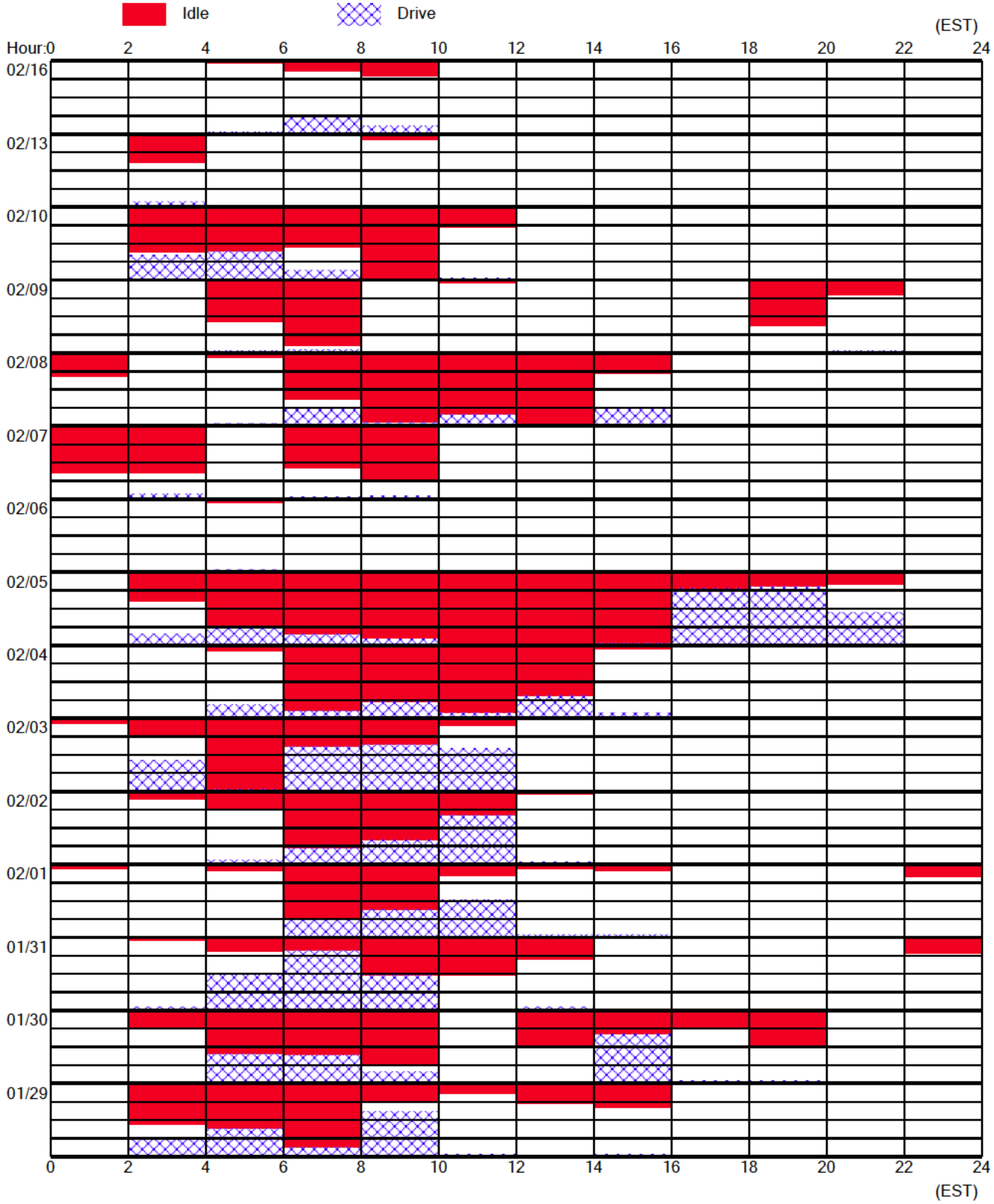
Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152



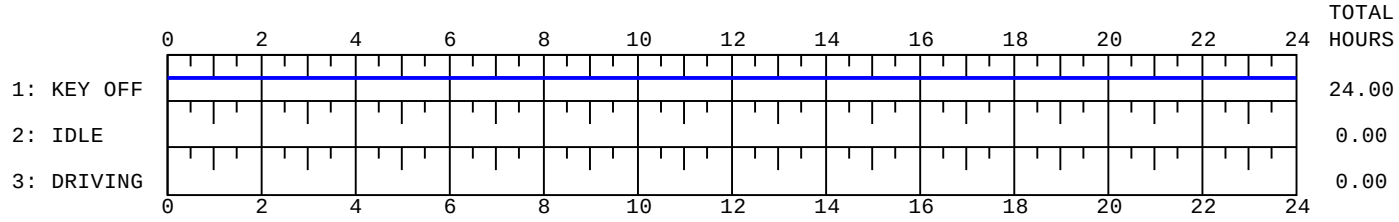
DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

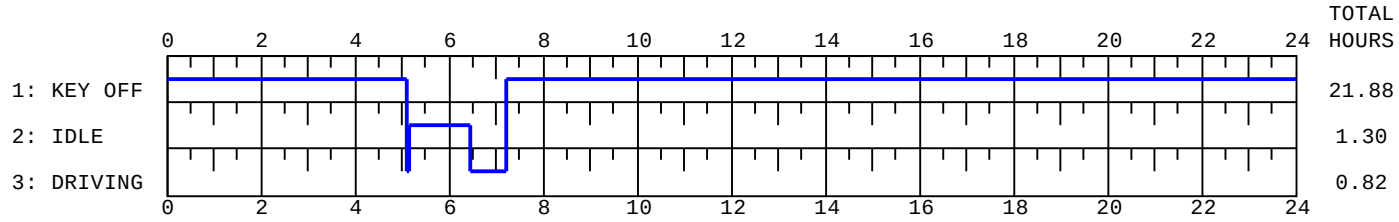
Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

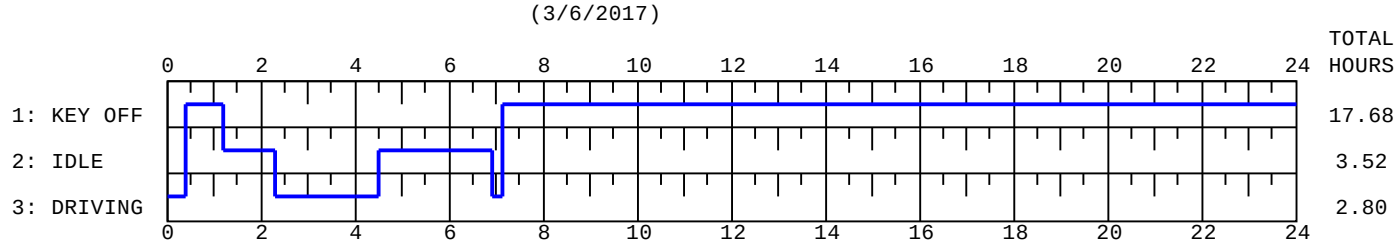
(3/9/2017)



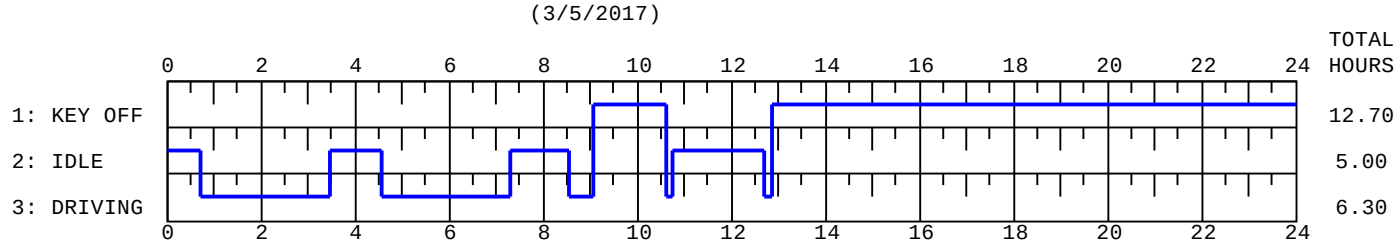
(3/7/2017)



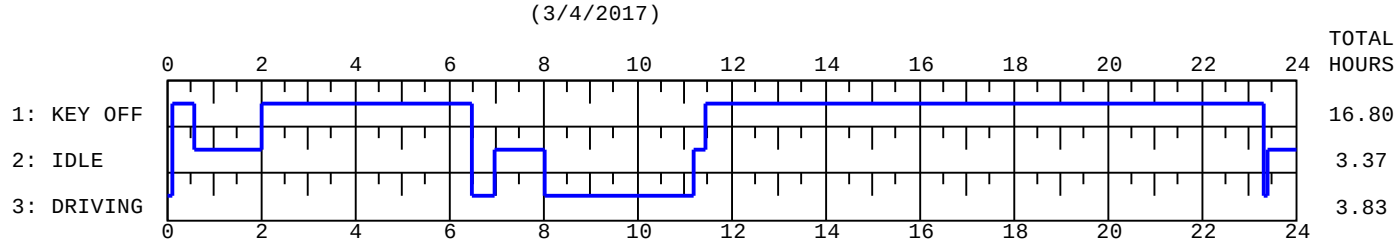
(3/6/2017)



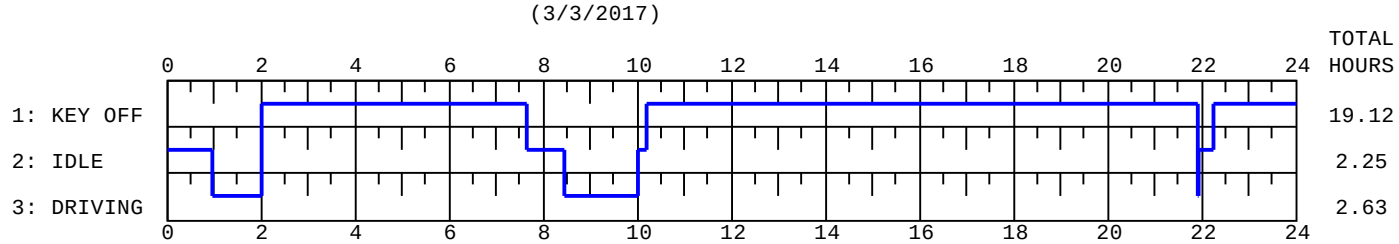
(3/5/2017)



(3/4/2017)



(3/3/2017)



DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

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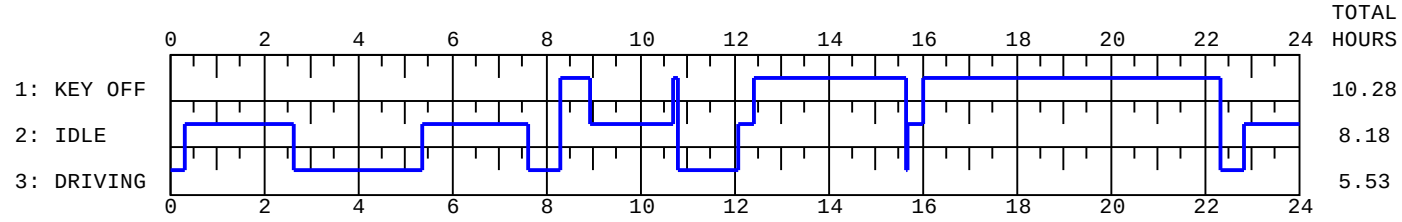
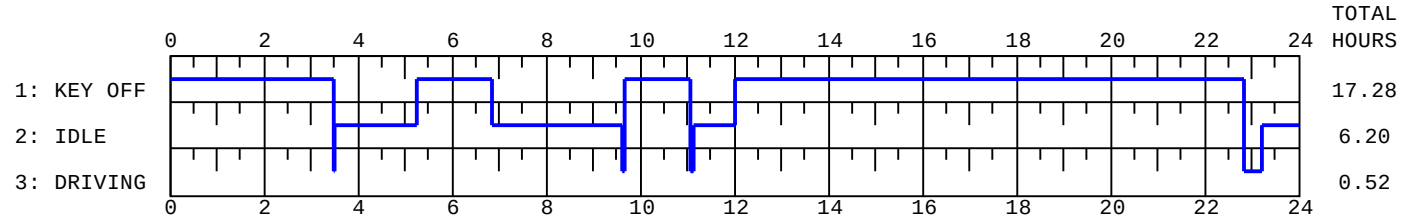
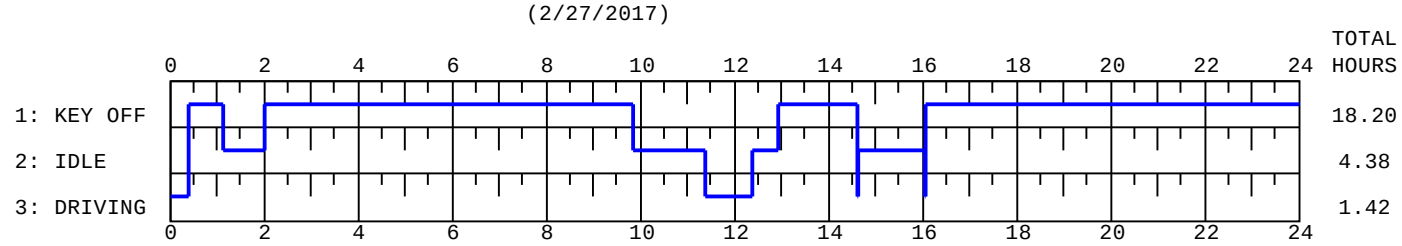
(3/2/2017)



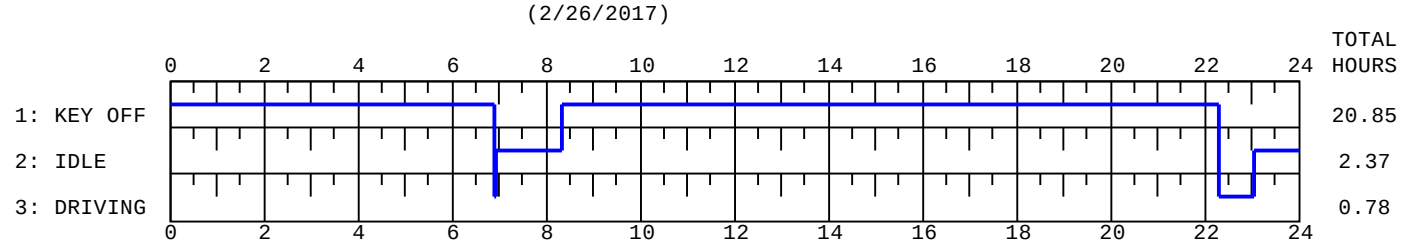
(3/1/2017)



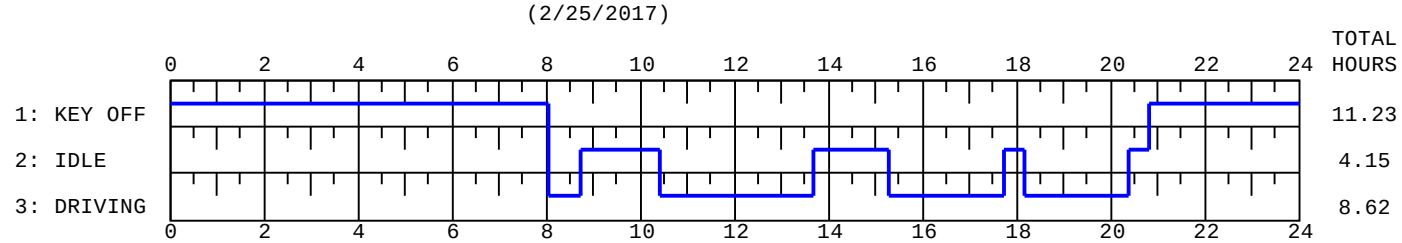
(2/27/2017)



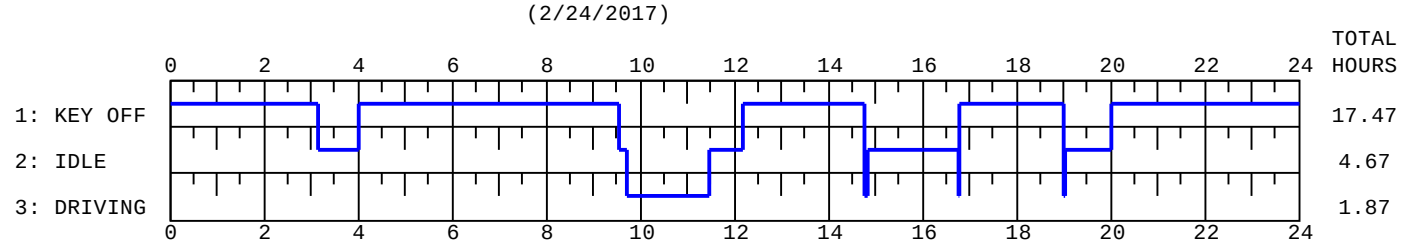
(2/26/2017)



(2/25/2017)



(2/24/2017)



DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

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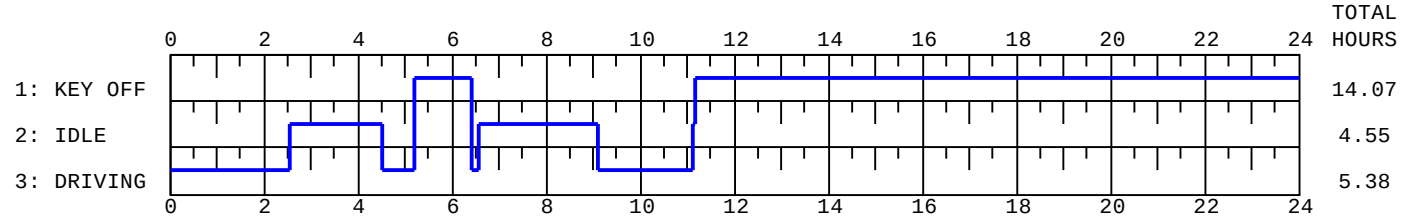
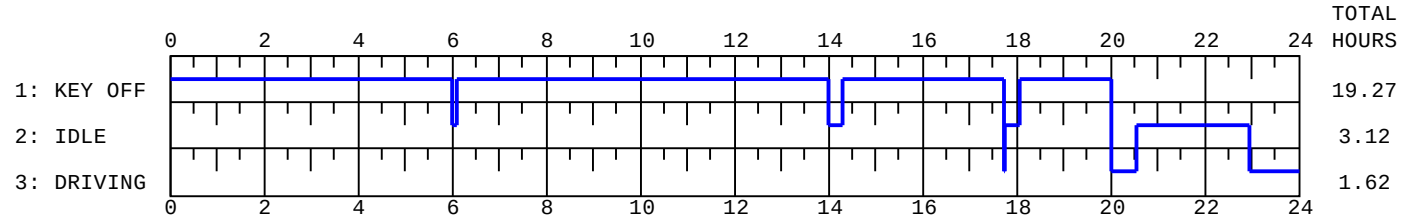
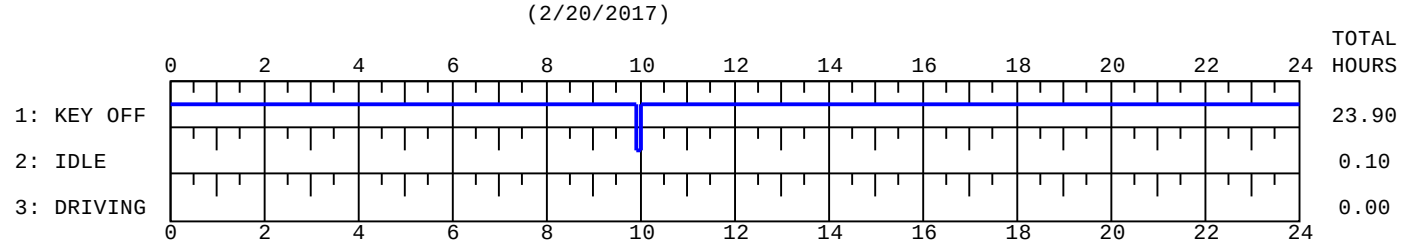
(2/23/2017)



(2/22/2017)



(2/20/2017)



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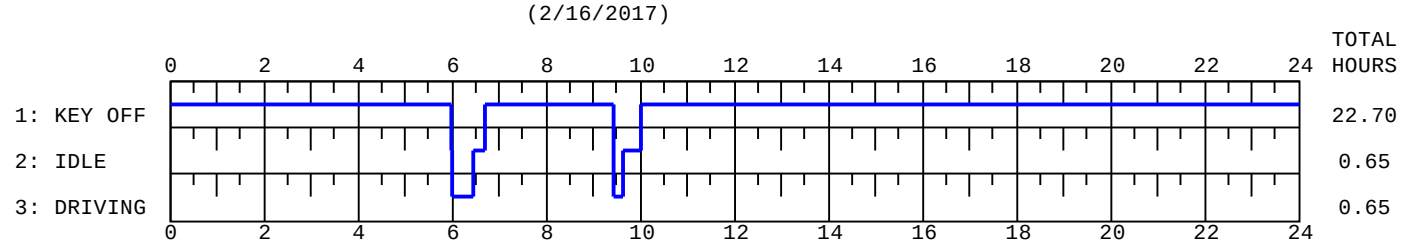

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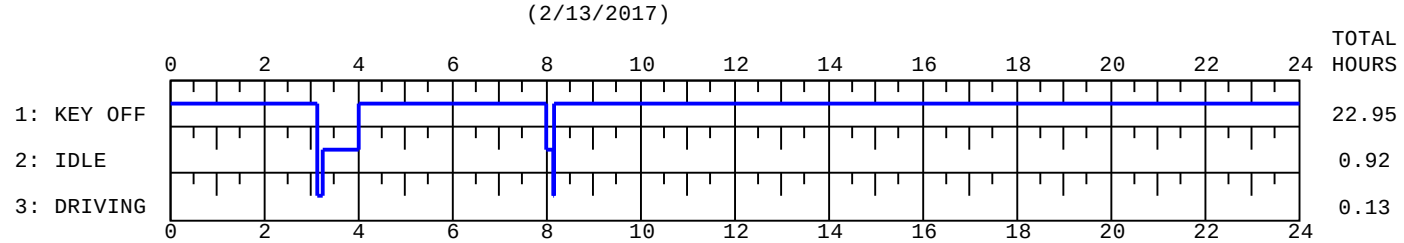

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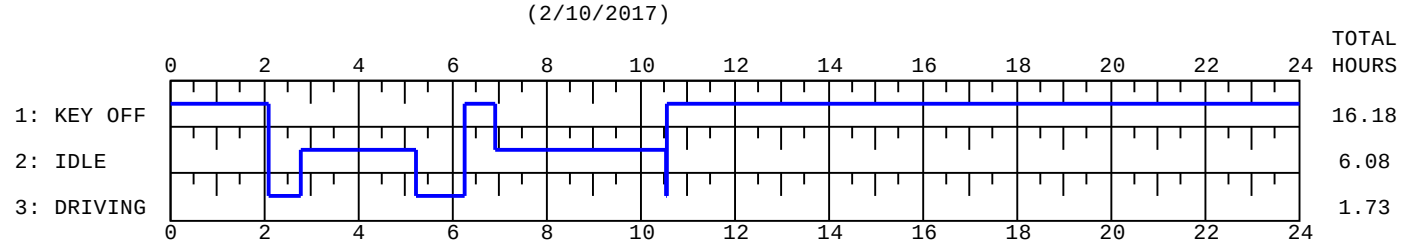

DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

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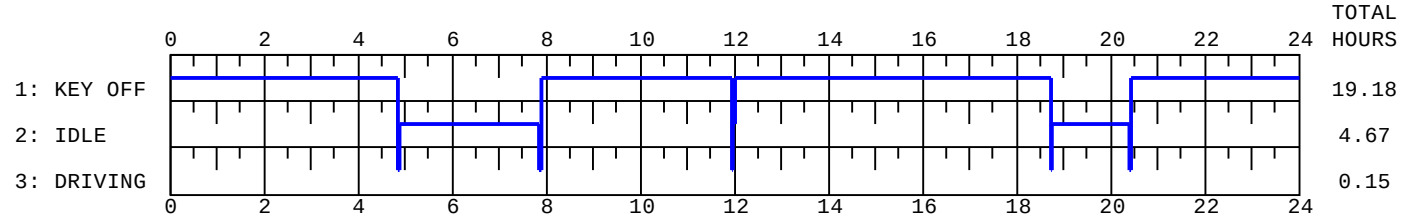
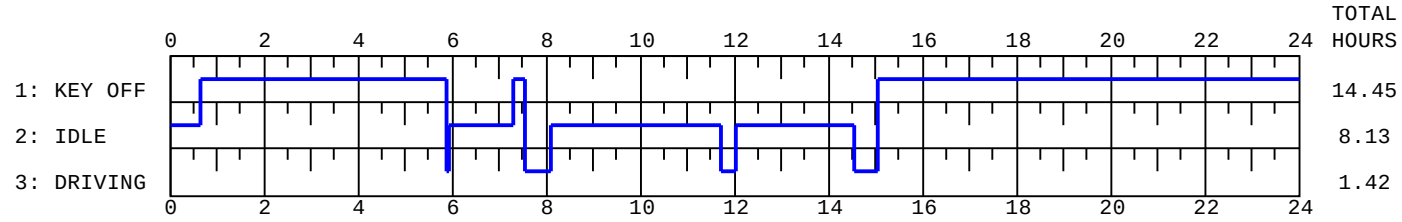
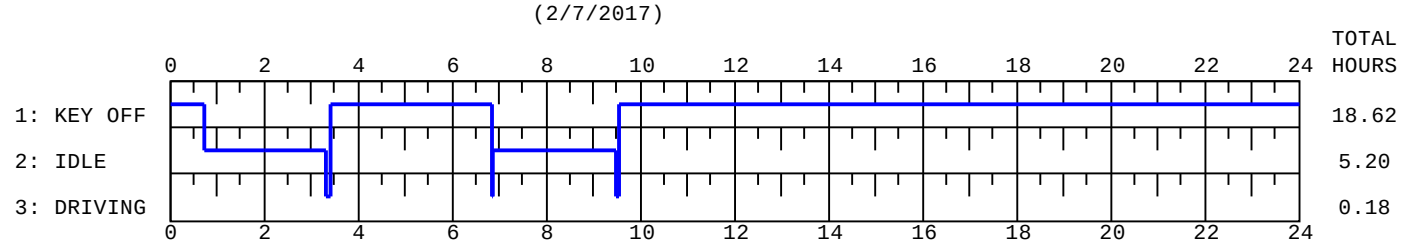
(2/9/2017)



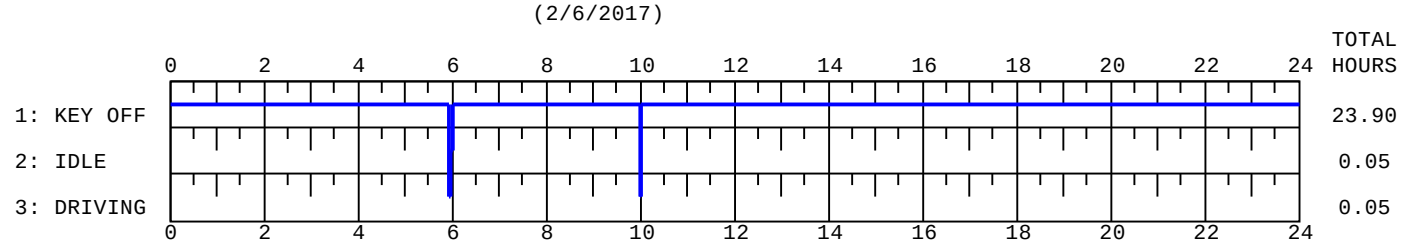
(2/8/2017)



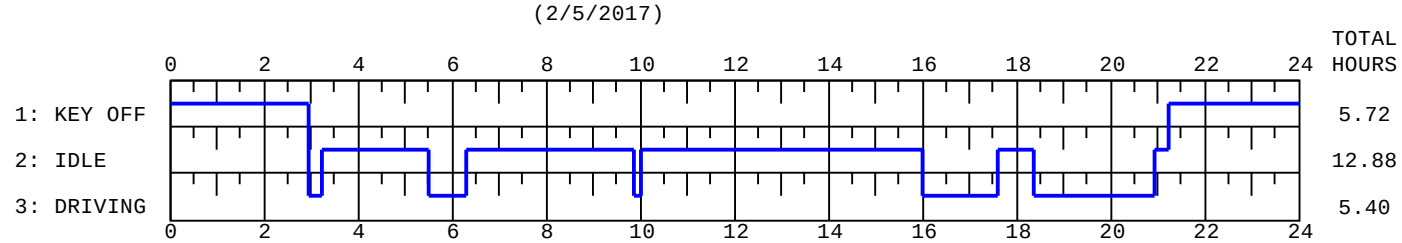
(2/7/2017)



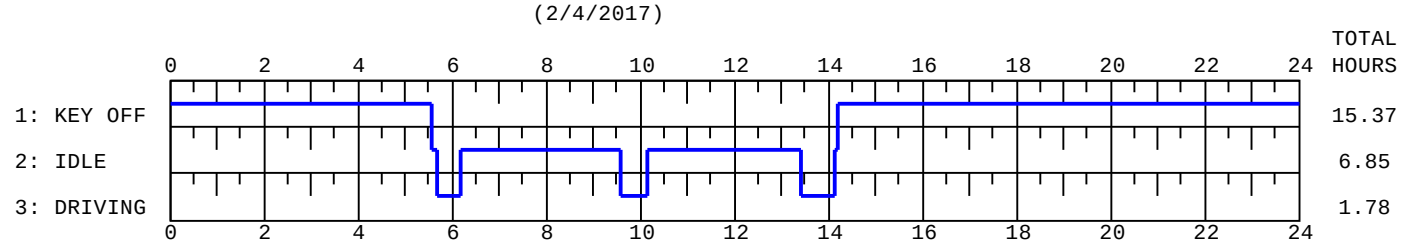
(2/6/2017)



(2/5/2017)



(2/4/2017)



DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

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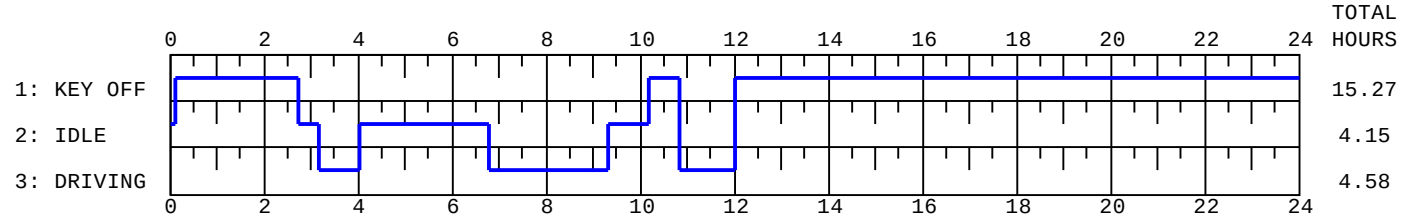
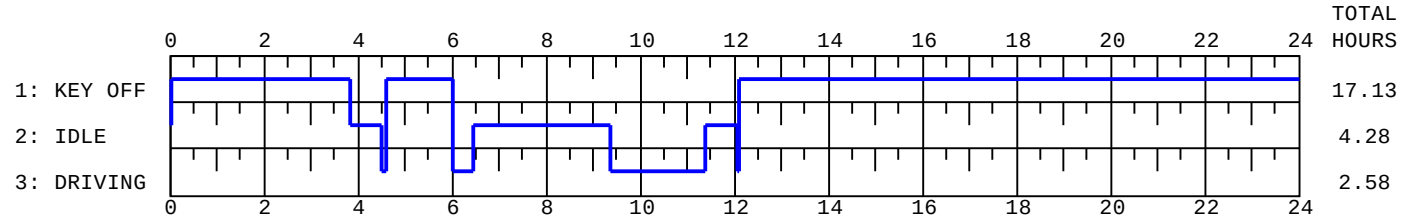
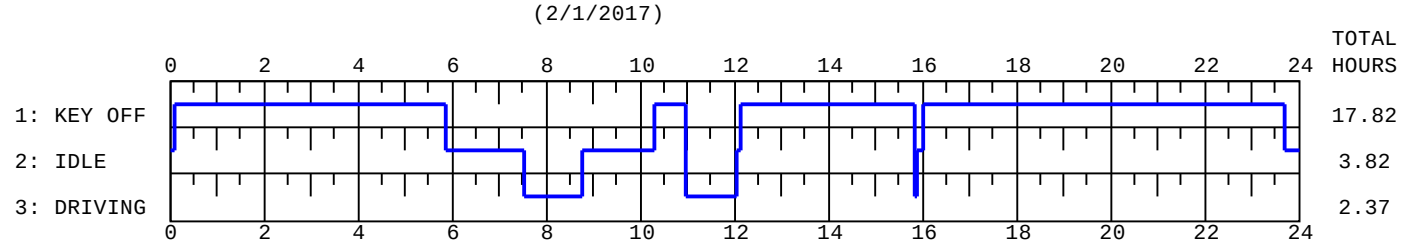
(2/3/2017)



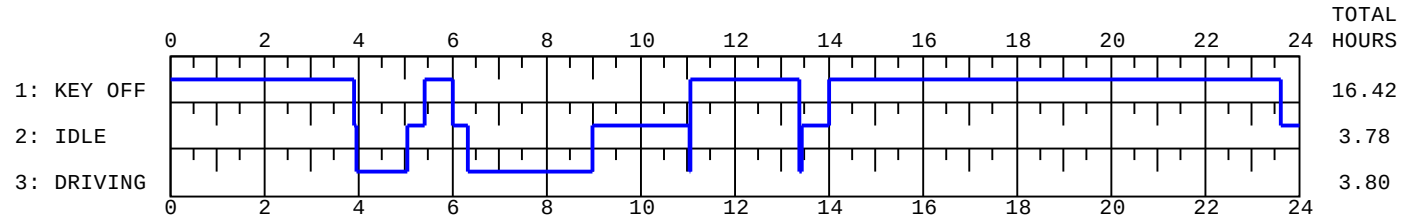
(2/2/2017)



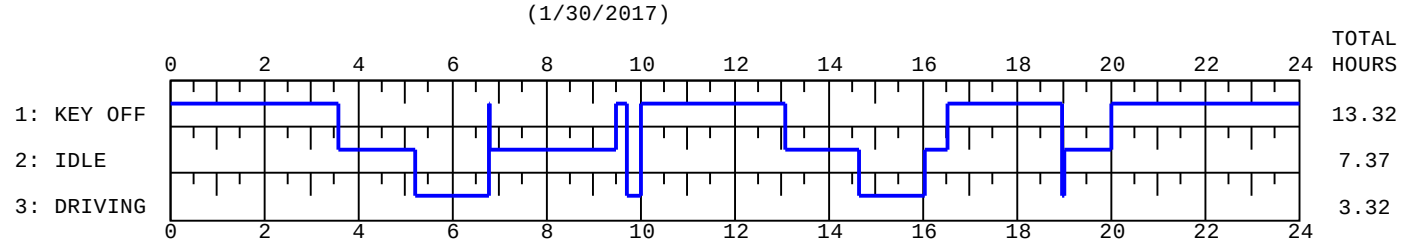
(2/1/2017)



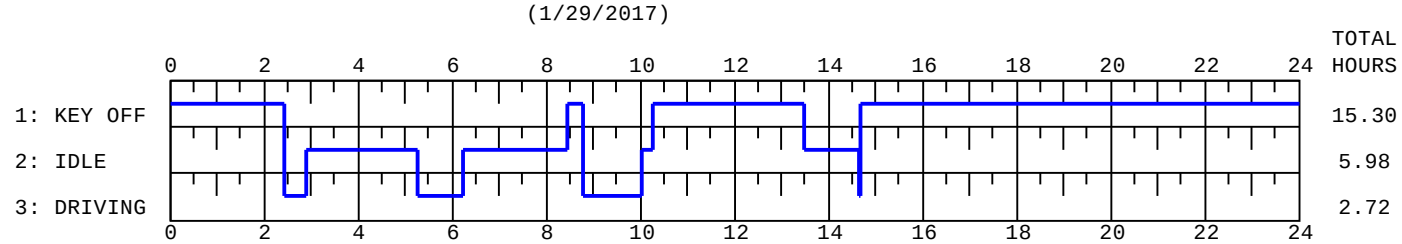
(1/31/2017)



(1/30/2017)



(1/29/2017)



DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

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Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

Date:	3/9/2017	
Start Time:	09:29:41	EST
Odometer:	62165.50	mi
Distance:	0.00	mi
Fuel:	0.00	gal
Fuel Economy:	0.00	mpg
Average Speed:	0.00	mph
DEF Fluid:	0.00	gal
Trip Economy:	0.00	mpg

Total(hh:mm)	00:00	00:00	24:00
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	0	0	120
06:00-08:00	0	0	120
08:00-10:00	0	0	120
10:00-12:00	0	0	120
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

Date:	3/7/2017	
Start Time:	13:04:05	EST
Odometer:	62134.00	mi
Distance:	31.50	mi
Fuel:	6.50	gal
Fuel Economy:	4.85	mpg
Average Speed:	38.57	mph
DEF Fluid:	0.20	gal
Trip Economy:	157.73	mpg

Total(hh:mm)	00:49	01:18	21:53
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	3	52	65
06:00-08:00	46	26	48
08:00-10:00	0	0	120
10:00-12:00	0	0	120
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

Date:	3/6/2017	
Start Time:	08:46:35	EST
Odometer:	61964.50	mi
Distance:	169.50	mi
Fuel:	27.75	gal
Fuel Economy:	6.11	mpg
Average Speed:	60.54	mph
DEF Fluid:	0.66	gal
Trip Economy:	255.62	mpg

Total(hh:mm)	02:48	03:31	17:41
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	23	49	48
02:00-04:00	103	17	0
04:00-06:00	29	91	0
06:00-08:00	13	54	53
08:00-10:00	0	0	120
10:00-12:00	0	0	120
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

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Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

Date:	3/5/2017	
Start Time:	08:00:00	EST
Odometer:	61606.80	mi
Distance:	357.70	mi
Fuel:	59.75	gal
Fuel Economy:	5.99	mpg
Average Speed:	56.78	mph
DEF Fluid:	1.62	gal
Trip Economy:	221.25	mpg

Total(hh:mm)	06:18	05:00	12:42
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	78	42	0
02:00-04:00	87	33	0
04:00-06:00	87	33	0
06:00-08:00	77	43	0
08:00-10:00	31	32	57
10:00-12:00	8	76	36
12:00-14:00	10	41	69
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

Date:	3/4/2017	
Start Time:	08:00:00	EST
Odometer:	61375.40	mi
Distance:	231.40	mi
Fuel:	34.25	gal
Fuel Economy:	6.76	mpg
Average Speed:	60.37	mph
DEF Fluid:	0.98	gal
Trip Economy:	236.24	mpg

Total(hh:mm)	03:50	03:22	16:48
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	6	86	28
02:00-04:00	0	0	120
04:00-06:00	0	0	120
06:00-08:00	29	63	28
08:00-10:00	119	1	0
10:00-12:00	71	15	34
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	5	37	78

Date:	3/3/2017	
Start Time:	08:00:00	EST
Odometer:	61272.70	mi
Distance:	102.70	mi
Fuel:	18.00	gal
Fuel Economy:	5.71	mpg
Average Speed:	39.00	mph
DEF Fluid:	0.53	gal
Trip Economy:	192.08	mpg

Total(hh:mm)	02:38	02:15	19:07
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	63	57	0
02:00-04:00	0	0	120
04:00-06:00	0	0	120
06:00-08:00	0	22	98
08:00-10:00	94	26	0
10:00-12:00	0	11	109
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	1	5	114
22:00-24:00	0	14	106

DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

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( ) -

Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

Date:	3/2/2017	
Start Time:	08:00:00	EST
Odometer:	61097.80	mi
Distance:	174.90	mi
Fuel:	37.50	gal
Fuel Economy:	4.66	mpg
Average Speed:	31.61	mph
DEF Fluid:	1.00	gal
Trip Economy:	174.64	mpg

Total(hh:mm)	05:32	08:11	10:17
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	18	102	0
02:00-04:00	83	37	0
04:00-06:00	81	39	0
06:00-08:00	24	96	0
08:00-10:00	17	65	38
10:00-12:00	73	41	6
12:00-14:00	4	20	96
14:00-16:00	2	20	98
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	30	71	19

Date:	3/1/2017	
Start Time:	11:26:52	EST
Odometer:	61088.00	mi
Distance:	9.80	mi
Fuel:	10.25	gal
Fuel Economy:	0.96	mpg
Average Speed:	18.97	mph
DEF Fluid:	0.03	gal
Trip Economy:	286.72	mpg

Total(hh:mm)	00:31	06:12	17:17
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	1	31	88
04:00-06:00	0	74	46
06:00-08:00	0	70	50
08:00-10:00	3	96	21
10:00-12:00	4	53	63
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	23	48	49

Date:	2/27/2017	
Start Time:	08:00:00	EST
Odometer:	61037.50	mi
Distance:	50.50	mi
Fuel:	12.50	gal
Fuel Economy:	4.04	mpg
Average Speed:	35.65	mph
DEF Fluid:	0.19	gal
Trip Economy:	264.51	mpg

Total(hh:mm)	01:25	04:23	18:12
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	23	53	44
02:00-04:00	0	0	120
04:00-06:00	0	0	120
06:00-08:00	0	0	120
08:00-10:00	0	10	110
10:00-12:00	38	82	0
12:00-14:00	22	33	65
14:00-16:00	1	83	36
16:00-18:00	1	2	117
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

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( ) -

Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

Date:	2/26/2017	
Start Time:	14:52:30	EST
Odometer:	61011.50	mi
Distance:	26.00	mi
Fuel:	7.00	gal
Fuel Economy:	3.71	mpg
Average Speed:	33.19	mph
DEF Fluid:	0.13	gal
Trip Economy:	208.00	mpg

Total(hh:mm)	00:47	02:22	20:51
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	0	0	120
06:00-08:00	2	65	53
08:00-10:00	0	19	101
10:00-12:00	0	0	120
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	45	58	17

Date:	2/25/2017	
Start Time:	15:59:31	EST
Odometer:	60466.00	mi
Distance:	545.50	mi
Fuel:	70.00	gal
Fuel Economy:	7.79	mpg
Average Speed:	63.31	mph
DEF Fluid:	2.27	gal
Trip Economy:	240.05	mpg

Total(hh:mm)	08:37	04:09	11:14
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	0	0	120
06:00-08:00	0	0	120
08:00-10:00	41	77	2
10:00-12:00	96	24	0
12:00-14:00	100	20	0
14:00-16:00	44	76	0
16:00-18:00	103	17	0
18:00-20:00	111	9	0
20:00-22:00	22	26	72
22:00-24:00	0	0	120

Date:	2/24/2017	
Start Time:	10:11:03	EST
Odometer:	60371.90	mi
Distance:	94.10	mi
Fuel:	18.25	gal
Fuel Economy:	5.16	mpg
Average Speed:	50.41	mph
DEF Fluid:	0.44	gal
Trip Economy:	215.33	mpg

Total(hh:mm)	01:52	04:40	17:28
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	52	68
04:00-06:00	0	0	120
06:00-08:00	0	0	120
08:00-10:00	18	10	92
10:00-12:00	87	33	0
12:00-14:00	0	10	110
14:00-16:00	4	71	45
16:00-18:00	1	45	74
18:00-20:00	2	59	59
20:00-22:00	0	0	120
22:00-24:00	0	0	120

DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

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( ) -

Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

Date:	2/23/2017	
Start Time:	08:00:00	EST
Odometer:	60117.70	mi
Distance:	254.20	mi
Fuel:	40.50	gal
Fuel Economy:	6.28	mpg
Average Speed:	47.22	mph
DEF Fluid:	1.04	gal
Trip Economy:	243.96	mpg

Total(hh:mm)	05:23	04:33	14:04
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	120	0	0
02:00-04:00	32	88	0
04:00-06:00	41	30	49
06:00-08:00	9	87	24
08:00-10:00	55	65	0
10:00-12:00	66	3	51
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

Date:	2/22/2017	
Start Time:	13:06:38	EST
Odometer:	60027.10	mi
Distance:	90.60	mi
Fuel:	16.25	gal
Fuel Economy:	5.58	mpg
Average Speed:	56.04	mph
DEF Fluid:	0.39	gal
Trip Economy:	229.64	mpg

Total(hh:mm)	01:37	03:07	19:16
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	0	1	119
06:00-08:00	0	5	115
08:00-10:00	0	0	120
10:00-12:00	0	0	120
12:00-14:00	0	1	119
14:00-16:00	0	17	103
16:00-18:00	1	16	103
18:00-20:00	0	3	117
20:00-22:00	32	88	0
22:00-24:00	64	56	0

Date:	2/20/2017	
Start Time:	17:22:19	EST
Odometer:	60027.10	mi
Distance:	0.00	mi
Fuel:	0.00	gal
Fuel Economy:	0.00	mpg
Average Speed:	0.00	mph
DEF Fluid:	0.00	gal
Trip Economy:	0.00	mpg

Total(hh:mm)	00:00	00:06	23:54
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	0	0	120
06:00-08:00	0	0	120
08:00-10:00	0	6	114
10:00-12:00	0	0	120
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

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( ) -

Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

Date:	2/16/2017	
Start Time:	13:23:04	EST
Odometer:	60026.60	mi
Distance:	0.50	mi
Fuel:	3.00	gal
Fuel Economy:	0.17	mpg
Average Speed:	0.77	mph
DEF Fluid:	0.11	gal
Trip Economy:	4.41	mpg

Total(hh:mm)	00:39	00:39	22:42
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	1	1	118
06:00-08:00	26	15	79
08:00-10:00	12	23	85
10:00-12:00	0	0	120
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

Date:	2/13/2017	
Start Time:	10:29:06	EST
Odometer:	60026.10	mi
Distance:	0.50	mi
Fuel:	0.75	gal
Fuel Economy:	0.67	mpg
Average Speed:	3.75	mph
DEF Fluid:	0.00	gal
Trip Economy:	0.00	mpg

Total(hh:mm)	00:08	00:55	22:57
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	7	46	67
04:00-06:00	0	0	120
06:00-08:00	0	1	119
08:00-10:00	1	8	111
10:00-12:00	0	0	120
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

Date:	2/10/2017	
Start Time:	09:49:23	EST
Odometer:	59968.00	mi
Distance:	58.10	mi
Fuel:	18.25	gal
Fuel Economy:	3.18	mpg
Average Speed:	33.52	mph
DEF Fluid:	0.36	gal
Trip Economy:	160.80	mpg

Total(hh:mm)	01:44	06:05	16:11
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	41	74	5
04:00-06:00	47	73	0
06:00-08:00	15	66	39
08:00-10:00	0	120	0
10:00-12:00	1	32	87
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

, -
( ) -

Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

Date:	2/9/2017	
Start Time:	12:49:01	EST
Odometer:	59967.30	mi
Distance:	0.70	mi
Fuel:	4.50	gal
Fuel Economy:	0.16	mpg
Average Speed:	4.67	mph
DEF Fluid:	0.00	gal
Trip Economy:	0.00	mpg

Total(hh:mm)	00:09	04:40	19:11
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	2	68	50
06:00-08:00	3	110	7
08:00-10:00	0	0	120
10:00-12:00	1	3	116
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	1	76	43
20:00-22:00	2	23	95
22:00-24:00	0	0	120

Date:	2/8/2017	
Start Time:	08:55:27	EST
Odometer:	59914.10	mi
Distance:	53.20	mi
Fuel:	19.25	gal
Fuel Economy:	2.76	mpg
Average Speed:	37.55	mph
DEF Fluid:	0.27	gal
Trip Economy:	195.96	mpg

Total(hh:mm)	01:25	08:08	14:27
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	38	82
02:00-04:00	0	0	120
04:00-06:00	3	5	112
06:00-08:00	28	77	15
08:00-10:00	5	115	0
10:00-12:00	18	102	0
12:00-14:00	1	119	0
14:00-16:00	30	32	58
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

Date:	2/7/2017	
Start Time:	08:41:55	EST
Odometer:	59913.40	mi
Distance:	0.70	mi
Fuel:	6.75	gal
Fuel Economy:	0.10	mpg
Average Speed:	3.82	mph
DEF Fluid:	0.00	gal
Trip Economy:	0.00	mpg

Total(hh:mm)	00:11	05:12	18:37
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	77	43
02:00-04:00	6	78	36
04:00-06:00	0	0	120
06:00-08:00	1	69	50
08:00-10:00	4	88	28
10:00-12:00	0	0	120
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

, -
( ) -

Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

Date:	2/6/2017	
Start Time:	12:32:34	EST
Odometer:	59913.10	mi
Distance:	0.30	mi
Fuel:	0.00	gal
Fuel Economy:	0.00	mpg
Average Speed:	6.00	mph
DEF Fluid:	0.00	gal
Trip Economy:	0.00	mpg

Total(hh:mm)	00:03	00:03	23:54
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	2	3	115
06:00-08:00	0	0	120
08:00-10:00	1	0	119
10:00-12:00	0	0	120
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

Date:	2/5/2017	
Start Time:	10:55:09	EST
Odometer:	59619.10	mi
Distance:	294.00	mi
Fuel:	54.75	gal
Fuel Economy:	5.37	mpg
Average Speed:	54.44	mph
DEF Fluid:	1.23	gal
Trip Economy:	238.55	mpg

Total(hh:mm)	05:24	12:53	05:43
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	17	47	56
04:00-06:00	31	89	0
06:00-08:00	17	103	0
08:00-10:00	9	111	0
10:00-12:00	0	120	0
12:00-14:00	0	120	0
14:00-16:00	1	119	0
16:00-18:00	95	25	0
18:00-20:00	99	21	0
20:00-22:00	55	18	47
22:00-24:00	0	0	120

Date:	2/4/2017	
Start Time:	13:32:22	EST
Odometer:	59562.10	mi
Distance:	57.00	mi
Fuel:	18.75	gal
Fuel Economy:	3.04	mpg
Average Speed:	31.96	mph
DEF Fluid:	0.28	gal
Trip Economy:	201.97	mpg

Total(hh:mm)	01:47	06:51	15:22
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	0	120
04:00-06:00	20	7	93
06:00-08:00	10	110	0
08:00-10:00	26	94	0
10:00-12:00	8	112	0
12:00-14:00	36	84	0
14:00-16:00	7	4	109
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

, -
( ) -

Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

Date:	2/3/2017	
Start Time:	09:53:26	EST
Odometer:	59438.20	mi
Distance:	123.90	mi
Fuel:	25.75	gal
Fuel Economy:	4.81	mpg
Average Speed:	27.03	mph
DEF Fluid:	0.64	gal
Trip Economy:	194.29	mpg

Total(hh:mm)	04:35	04:09	15:16
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	6	114
02:00-04:00	51	26	43
04:00-06:00	1	119	0
06:00-08:00	74	46	0
08:00-10:00	78	42	0
10:00-12:00	71	10	39
12:00-14:00	0	0	120
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

Date:	2/2/2017	
Start Time:	09:42:15	EST
Odometer:	59373.70	mi
Distance:	64.50	mi
Fuel:	18.00	gal
Fuel Economy:	3.58	mpg
Average Speed:	24.97	mph
DEF Fluid:	0.39	gal
Trip Economy:	164.30	mpg

Total(hh:mm)	02:35	04:17	17:08
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	1	119
02:00-04:00	0	11	109
04:00-06:00	6	29	85
06:00-08:00	26	94	0
08:00-10:00	39	81	0
10:00-12:00	82	38	0
12:00-14:00	2	3	115
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

Date:	2/1/2017	
Start Time:	08:00:00	EST
Odometer:	59312.40	mi
Distance:	61.30	mi
Fuel:	16.25	gal
Fuel Economy:	3.77	mpg
Average Speed:	25.90	mph
DEF Fluid:	0.36	gal
Trip Economy:	169.42	mpg

Total(hh:mm)	02:22	03:49	17:49
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	5	115
02:00-04:00	0	0	120
04:00-06:00	0	9	111
06:00-08:00	29	91	0
08:00-10:00	45	75	0
10:00-12:00	63	17	40
12:00-14:00	2	5	113
14:00-16:00	3	8	109
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	19	101

DDEC® Reports - Daily Engine Usage

Print Date: 3/9/2017 6:23 PM
NTSB

, -
( ) -

Date Range: 03/09/17 To 01/29/17 (EST)

Vehicle ID: HWY17MH010
Driver ID:
Engine S/N: 471934S0339152

Date:	1/31/2017	
Start Time:	10:07:47	EST
Odometer:	59073.30	mi
Distance:	239.10	mi
Fuel:	34.50	gal
Fuel Economy:	6.93	mpg
Average Speed:	62.92	mph
DEF Fluid:	1.14	gal
Trip Economy:	210.43	mpg

Total(hh:mm)	03:48	03:47	16:25
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	3	3	114
04:00-06:00	62	22	36
06:00-08:00	101	19	0
08:00-10:00	58	62	0
10:00-12:00	1	62	57
12:00-14:00	3	35	82
14:00-16:00	0	0	120
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	24	96

Date:	1/30/2017	
Start Time:	11:32:52	EST
Odometer:	58918.30	mi
Distance:	155.00	mi
Fuel:	29.00	gal
Fuel Economy:	5.34	mpg
Average Speed:	46.73	mph
DEF Fluid:	0.76	gal
Trip Economy:	204.54	mpg

Total(hh:mm)	03:19	07:22	13:19
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	0	26	94
04:00-06:00	48	72	0
06:00-08:00	46	73	1
08:00-10:00	18	88	14
10:00-12:00	0	0	120
12:00-14:00	0	56	64
14:00-16:00	82	38	0
16:00-18:00	2	29	89
18:00-20:00	3	60	57
20:00-22:00	0	0	120
22:00-24:00	0	0	120

Date:	1/29/2017	
Start Time:	10:24:21	EST
Odometer:	58797.20	mi
Distance:	121.10	mi
Fuel:	23.25	gal
Fuel Economy:	5.21	mpg
Average Speed:	44.58	mph
DEF Fluid:	0.56	gal
Trip Economy:	217.17	mpg

Total(hh:mm)	02:43	05:59	15:18
Hour(EST)	Drive(min)	Idle(min)	Off(min)
00:00-02:00	0	0	120
02:00-04:00	28	67	25
04:00-06:00	45	75	0
06:00-08:00	13	107	0
08:00-10:00	74	26	20
10:00-12:00	1	14	105
12:00-14:00	0	32	88
14:00-16:00	2	38	80
16:00-18:00	0	0	120
18:00-20:00	0	0	120
20:00-22:00	0	0	120
22:00-24:00	0	0	120

DDEC® Reports - Hard Brake #1

Print Date: 3/9/2017 6:23 PM
NTSB

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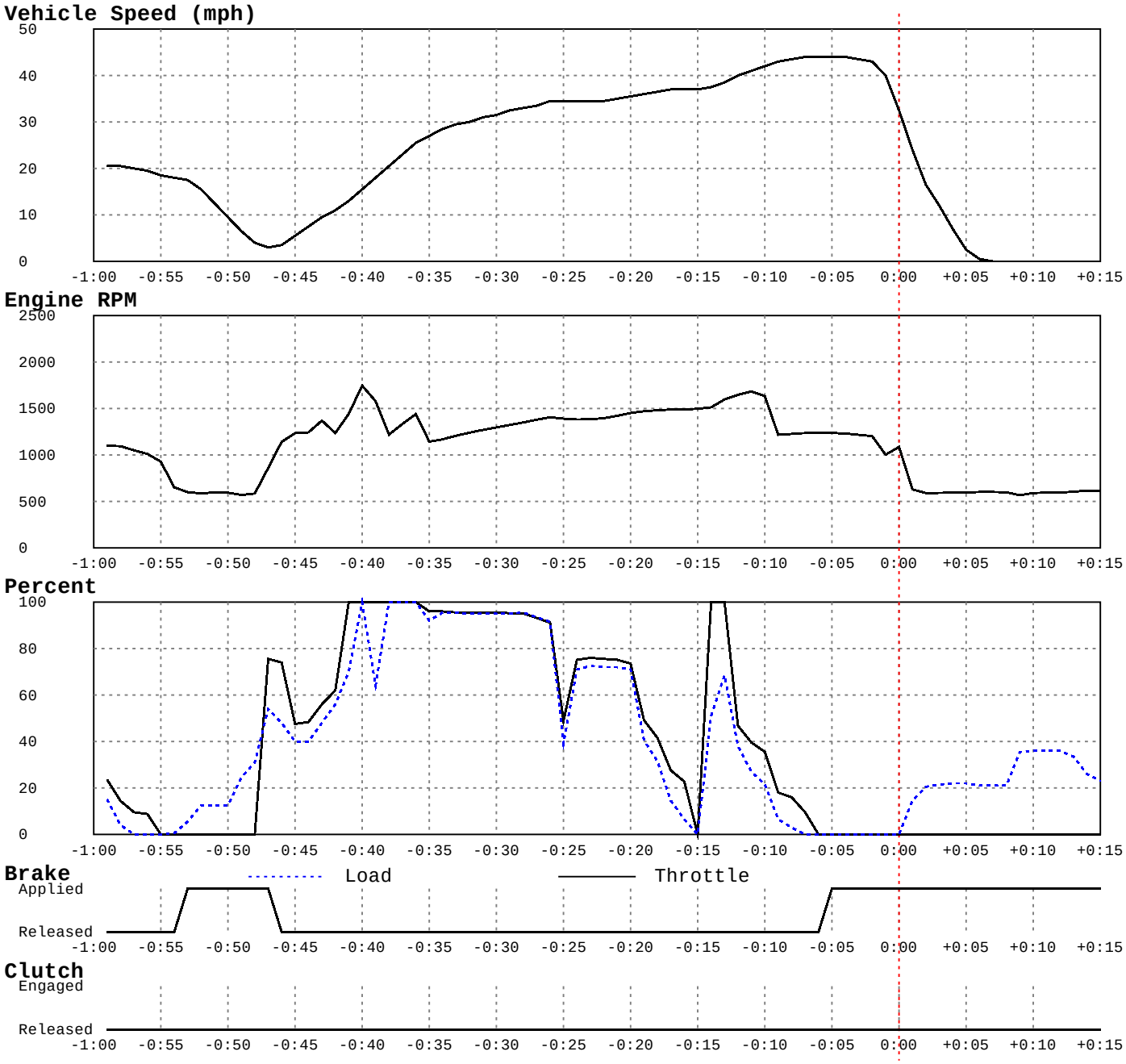
Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6 mi	Trip Time	3098:58:44
Trip Fuel	10953.04 gal	Fuel Consumption	3.53 gal/h
Fuel Economy	5.68 mpg	Idle Time	1846:07:36
Avg Drive Load	40 %	Idle Percent	59.57 %
Avg Vehicle Speed	49.7 mph	Idle Fuel	2660.04 gal
		Parked Regen Time	2:19:46

Incident Time: 01/25/17 3:23:02 (EST)
Incident Odometer: 58001.9 mi



DDEC® Reports - Hard Brake #2

Print Date: 3/9/2017 6:23 PM
NTSB

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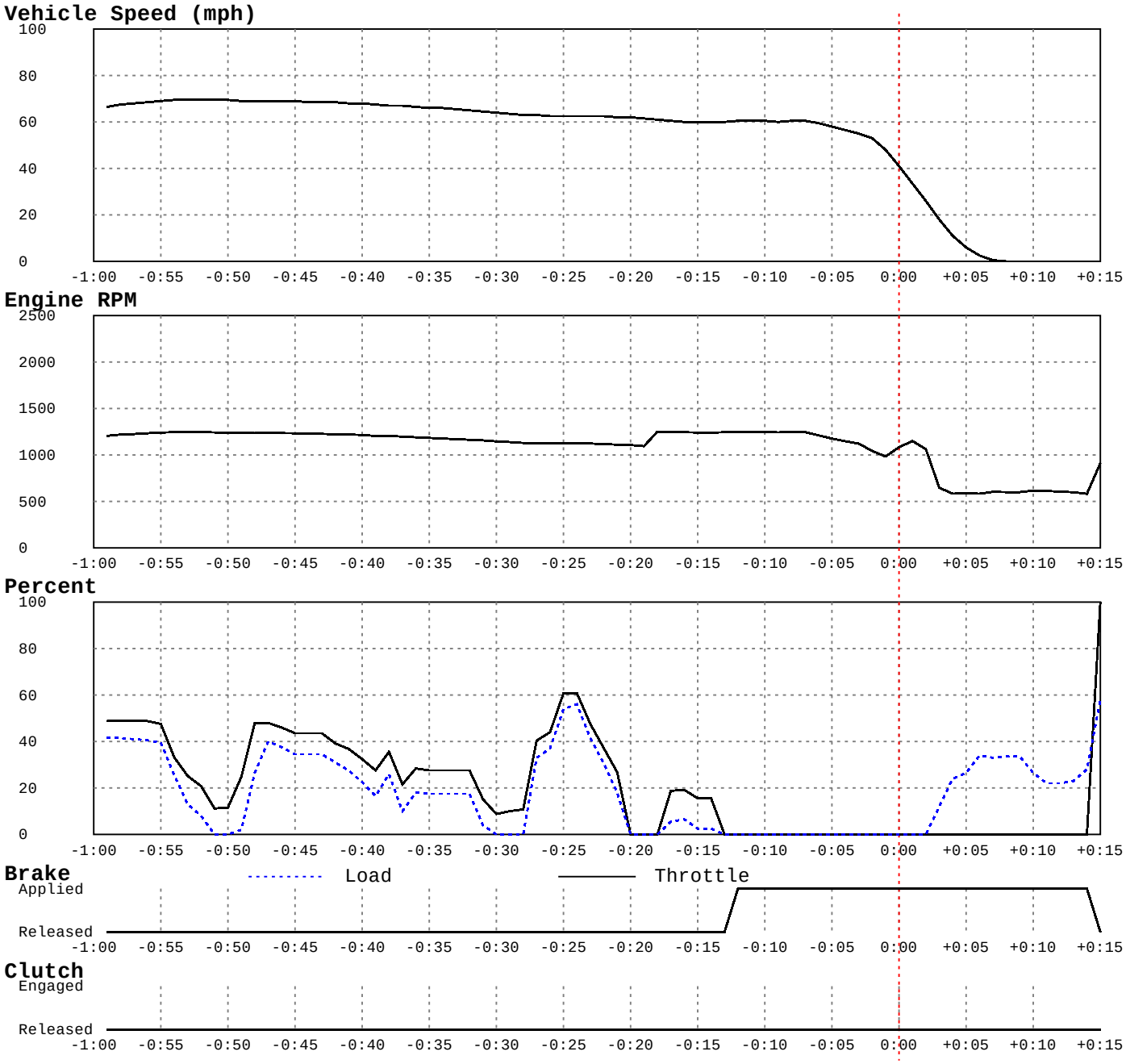
Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6 mi	Trip Time	3098:58:44
Trip Fuel	10953.04 gal	Fuel Consumption	3.53 gal/h
Fuel Economy	5.68 mpg	Idle Time	1846:07:36
Avg Drive Load	40 %	Idle Percent	59.57 %
Avg Vehicle Speed	49.7 mph	Idle Fuel	2660.04 gal
		Parked Regen Time	2:19:46

Incident Time: 03/07/17 14:09:48 (EST)
Incident Odometer: 62139.8 mi



DDEC® Reports - Hard Brake #1

Print Date: 3/9/2017 6:24 PM
NTSB

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Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6 mi	Trip Time	3098:58:44
Trip Fuel	10953.04 gal	Fuel Consumption	3.53 gal/h
Fuel Economy	5.68 mpg	Idle Time	1846:07:36
Avg Drive Load	40 %	Idle Percent	59.57 %
Avg Vehicle Speed	49.7 mph	Idle Fuel	2660.04 gal
		Parked Regen Time	2:19:46

Incident Time: 1/25/2017 3:23:02 AM (EST) Incident Odometer: 58001.9 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-0:59	20.5	1100	No	No	15.00	23.60	No	No
-0:58	20.5	1095	No	No	4.00	14.40	No	No
-0:57	20.0	1051	No	No	0.00	9.60	No	No
-0:56	19.5	1011	No	No	0.00	8.80	No	No
-0:55	18.5	929	No	No	0.00	0.00	No	No
-0:54	18.0	652	No	No	0.50	0.00	No	No
-0:53	17.5	601	Yes	No	5.50	0.00	No	No
-0:52	15.5	587	Yes	No	12.50	0.00	No	No
-0:51	12.5	598	Yes	No	12.50	0.00	No	No
-0:50	9.5	595	Yes	No	12.50	0.00	No	No
-0:49	6.5	570	Yes	No	24.50	0.00	No	No
-0:48	4.0	585	Yes	No	31.00	0.00	No	No
-0:47	3.0	861	Yes	No	54.00	75.60	No	No
-0:46	3.5	1141	No	No	48.00	74.00	No	No
-0:45	5.5	1236	No	No	40.00	47.60	No	No
-0:44	7.5	1244	No	No	40.00	48.40	No	No
-0:43	9.5	1371	No	No	48.00	56.00	No	No
-0:42	11.0	1237	No	No	56.00	62.00	No	No
-0:41	13.0	1443	No	No	70.00	100.00	No	No
-0:40	15.5	1746	No	No	100.00	100.00	No	No
-0:39	18.0	1581	No	No	64.00	100.00	No	No
-0:38	20.5	1220	No	No	100.00	100.00	No	No
-0:37	23.0	1334	No	No	100.00	100.00	No	No
-0:36	25.5	1440	No	No	100.00	100.00	No	No
-0:35	27.0	1144	No	No	92.00	96.00	No	No
-0:34	28.5	1168	No	No	95.50	96.00	No	No
-0:33	29.5	1206	No	No	95.50	95.60	No	No
-0:32	30.0	1242	No	No	95.00	95.60	No	No
-0:31	31.0	1270	No	No	95.00	95.60	No	No
-0:30	31.5	1296	No	No	95.00	95.60	No	No
-0:29	32.5	1325	No	No	95.00	95.20	No	No
-0:28	33.0	1350	No	No	95.50	95.20	No	No
-0:27	33.5	1381	No	No	93.50	93.20	No	No
-0:26	34.5	1406	No	No	91.50	91.20	No	No
-0:25	34.5	1391	No	No	39.00	48.80	No	No
-0:24	34.5	1383	No	No	71.00	75.20	No	No
-0:23	34.5	1385	No	No	72.50	76.00	No	No
-0:22	34.5	1397	No	No	72.00	75.60	No	No
-0:21	35.0	1422	No	No	72.00	75.20	No	No
-0:20	35.5	1452	No	No	71.00	73.60	No	No

Print Date: 3/9/2017 6:24 PM
NTSB

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Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Incident Time: 1/25/2017 3:23:02 AM (EST) Incident Odometer: 58001.9 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-0:19	36.0	1472	No	No	40.50	49.20	No	No
-0:18	36.5	1482	No	No	31.50	41.60	No	No
-0:17	37.0	1490	No	No	14.50	27.60	No	No
-0:16	37.0	1490	No	No	6.50	22.80	No	No
-0:15	37.0	1498	No	No	0.00	0.00	No	No
-0:14	37.5	1513	No	No	51.00	100.00	No	No
-0:13	38.5	1598	No	No	68.50	100.00	No	No
-0:12	40.0	1649	No	No	38.00	46.80	No	No
-0:11	41.0	1684	No	No	27.00	39.60	No	No
-0:10	42.0	1634	No	No	21.50	35.60	No	No
-0:09	43.0	1217	No	No	6.50	18.00	No	No
-0:08	43.5	1228	No	No	3.00	16.00	No	No
-0:07	44.0	1235	No	No	0.00	9.60	No	No
-0:06	44.0	1241	No	No	0.00	0.00	No	No
-0:05	44.0	1239	Yes	No	0.00	0.00	No	No
-0:04	44.0	1231	Yes	No	0.00	0.00	No	No
-0:03	43.5	1217	Yes	No	0.00	0.00	No	No
-0:02	43.0	1203	Yes	No	0.00	0.00	No	No
-0:01	40.0	1004	Yes	No	0.00	0.00	No	No
0:00	32.5	1087	Yes	No	0.00	0.00	No	No
+0:01	24.0	630	Yes	No	14.50	0.00	No	No
+0:02	16.5	591	Yes	No	20.50	0.00	No	No
+0:03	12.0	593	Yes	No	21.50	0.00	No	No
+0:04	7.0	595	Yes	No	22.00	0.00	No	No
+0:05	2.5	598	Yes	No	22.00	0.00	No	No
+0:06	0.5	602	Yes	No	21.00	0.00	No	No
+0:07	0.0	602	Yes	No	21.00	0.00	No	No
+0:08	0.0	599	Yes	No	21.00	0.00	No	No
+0:09	0.0	568	Yes	No	35.50	0.00	No	No
+0:10	0.0	591	Yes	No	36.00	0.00	No	No
+0:11	0.0	596	Yes	No	36.00	0.00	No	No
+0:12	0.0	597	Yes	No	36.00	0.00	No	No
+0:13	0.0	606	Yes	No	33.50	0.00	No	No
+0:14	0.0	618	Yes	No	26.00	0.00	No	No
+0:15	0.0	611	Yes	No	23.00	0.00	No	No

DDEC® Reports - Hard Brake #2

Print Date: 3/9/2017 6:24 PM
NTSB

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Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6 mi	Trip Time	3098:58:44
Trip Fuel	10953.04 gal	Fuel Consumption	3.53 gal/h
Fuel Economy	5.68 mpg	Idle Time	1846:07:36
Avg Drive Load	40 %	Idle Percent	59.57 %
Avg Vehicle Speed	49.7 mph	Idle Fuel	2660.04 gal
		Parked Regen Time	2:19:46

Incident Time: 3/7/2017 2:09:48 PM (EST) Incident Odometer: 62139.8 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-0:59	66.5	1206	No	No	41.50	48.80	No	No
-0:58	67.5	1221	No	No	41.50	48.80	No	No
-0:57	68.0	1226	No	No	41.00	48.80	No	No
-0:56	68.5	1234	No	No	40.50	48.80	No	No
-0:55	69.0	1243	No	No	39.50	47.60	No	No
-0:54	69.5	1245	No	No	25.50	33.20	No	No
-0:53	69.5	1249	No	No	13.00	25.20	No	No
-0:52	69.5	1247	No	No	8.00	20.80	No	No
-0:51	69.5	1243	No	No	0.00	11.20	No	No
-0:50	69.5	1239	No	No	0.00	11.60	No	No
-0:49	69.0	1236	No	No	2.00	24.80	No	No
-0:48	69.0	1236	No	No	26.50	48.00	No	No
-0:47	69.0	1238	No	No	40.00	48.00	No	No
-0:46	69.0	1234	No	No	37.50	46.00	No	No
-0:45	69.0	1236	No	No	34.50	43.60	No	No
-0:44	68.5	1230	No	No	34.50	43.60	No	No
-0:43	68.5	1229	No	No	34.50	43.60	No	No
-0:42	68.5	1223	No	No	31.00	39.20	No	No
-0:41	68.0	1220	No	No	27.50	36.80	No	No
-0:40	68.0	1216	No	No	22.50	32.40	No	No
-0:39	67.5	1205	No	No	16.50	27.60	No	No
-0:38	67.0	1207	No	No	26.00	35.60	No	No
-0:37	67.0	1198	No	No	10.00	21.60	No	No
-0:36	66.5	1188	No	No	18.00	28.40	No	No
-0:35	66.0	1184	No	No	17.50	27.60	No	No
-0:34	66.0	1180	No	No	17.50	27.60	No	No
-0:33	65.5	1171	No	No	17.50	27.60	No	No
-0:32	65.0	1164	No	No	17.50	27.60	No	No
-0:31	64.5	1158	No	No	4.00	15.20	No	No
-0:30	64.0	1147	No	No	0.00	8.80	No	No
-0:29	63.5	1139	No	No	0.00	10.00	No	No
-0:28	63.0	1129	No	No	0.00	10.80	No	No
-0:27	63.0	1127	No	No	33.00	40.40	No	No
-0:26	62.5	1122	No	No	37.00	44.00	No	No
-0:25	62.5	1125	No	No	54.00	60.80	No	No
-0:24	62.5	1125	No	No	56.00	60.80	No	No
-0:23	62.5	1122	No	No	41.50	47.60	No	No
-0:22	62.5	1117	No	No	30.50	37.20	No	No
-0:21	62.0	1112	No	No	18.00	26.80	No	No
-0:20	62.0	1107	No	No	0.00	0.00	No	No

DDEC® Reports - Hard Brake #2

Print Date: 3/9/2017 6:24 PM
NTSB

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Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Incident Time: 3/7/2017 2:09:48 PM (EST) Incident Odometer: 62139.8 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-0:19	61.5	1095	No	No	0.00	0.00	No	No
-0:18	61.0	1252	No	No	0.00	0.00	No	No
-0:17	60.5	1246	No	No	5.50	18.80	No	No
-0:16	60.0	1245	No	No	6.50	19.20	No	No
-0:15	60.0	1242	No	No	2.50	15.60	No	No
-0:14	60.0	1240	No	No	2.50	15.60	No	No
-0:13	60.0	1245	No	No	0.00	0.00	No	No
-0:12	60.5	1249	Yes	No	0.00	0.00	No	No
-0:11	60.5	1251	Yes	No	0.00	0.00	No	No
-0:10	60.5	1249	Yes	No	0.00	0.00	No	No
-0:09	60.0	1243	Yes	No	0.00	0.00	No	No
-0:08	60.5	1247	Yes	No	0.00	0.00	No	No
-0:07	60.5	1246	Yes	No	0.00	0.00	No	No
-0:06	59.5	1212	Yes	No	0.00	0.00	No	No
-0:05	58.0	1177	Yes	No	0.00	0.00	No	No
-0:04	56.5	1148	Yes	No	0.00	0.00	No	No
-0:03	55.0	1123	Yes	No	0.00	0.00	No	No
-0:02	53.0	1044	Yes	No	0.00	0.00	No	No
-0:01	48.0	984	Yes	No	0.00	0.00	No	No
0:00	41.0	1084	Yes	No	0.00	0.00	No	No
+0:01	33.5	1151	Yes	No	0.00	0.00	No	No
+0:02	26.0	1064	Yes	No	0.00	0.00	No	No
+0:03	18.0	648	Yes	No	12.00	0.00	No	No
+0:04	11.0	585	Yes	No	24.00	0.00	No	No
+0:05	6.0	587	Yes	No	26.50	0.00	No	No
+0:06	2.5	584	Yes	No	34.00	0.00	No	No
+0:07	0.5	603	Yes	No	33.00	0.00	No	No
+0:08	0.0	601	Yes	No	33.50	0.00	No	No
+0:09	0.0	600	Yes	No	33.50	0.00	No	No
+0:10	0.0	617	Yes	No	26.50	0.00	No	No
+0:11	0.0	614	Yes	No	22.00	0.00	No	No
+0:12	0.0	606	Yes	No	22.00	0.00	No	No
+0:13	0.0	600	Yes	No	23.00	0.00	No	No
+0:14	0.0	583	Yes	No	28.00	0.00	No	No
+0:15	0.0	912	No	No	58.00	100.00	No	No

DDEC® Reports - Last Stop Record

Print Date: 3/9/2017 6:24 PM
NTSB

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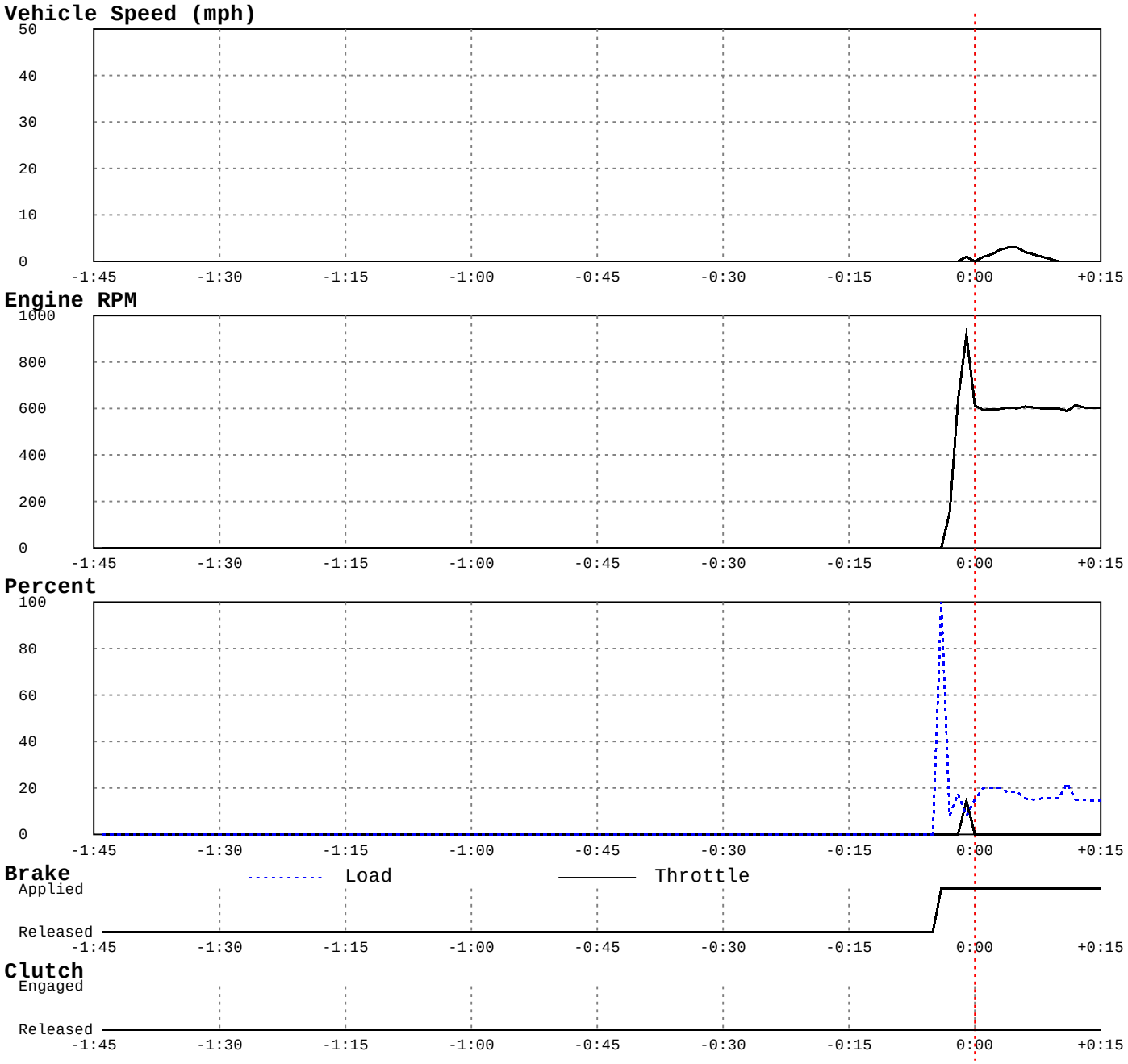
Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6 mi	Trip Time	3098:58:44
Trip Fuel	10953.04 gal	Fuel Consumption	3.53 gal/h
Fuel Economy	5.68 mpg	Idle Time	1846:07:36
Avg Drive Load	40 %	Idle Percent	59.57 %
Avg Vehicle Speed	49.7 mph	Idle Fuel	2660.04 gal
		Parked Regen Time	2:19:46

Last Stop Time: 03/07/17 14:51:52 (EST)
Last Stop Odometer: 62165.5 mi



DDEC® Reports - Last Stop Record

Print Date: 3/9/2017 6:24 PM
NTSB

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Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
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Fuel Economy	5.68 mpg	Idle Time	1846:07:36
Avg Drive Load	40 %	Idle Percent	59.57 %
Avg Vehicle Speed	49.7 mph	Idle Fuel	2660.04 gal
		Parked Regen Time	2:19:46

Last Stop Time: 3/7/2017 2:51:52 PM (EST) Last Stop Odometer: 62165.5 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-1:44	0.0	0	No	No	0.00	0.00	No	No
-1:43	0.0	0	No	No	0.00	0.00	No	No
-1:42	0.0	0	No	No	0.00	0.00	No	No
-1:41	0.0	0	No	No	0.00	0.00	No	No
-1:40	0.0	0	No	No	0.00	0.00	No	No
-1:39	0.0	0	No	No	0.00	0.00	No	No
-1:38	0.0	0	No	No	0.00	0.00	No	No
-1:37	0.0	0	No	No	0.00	0.00	No	No
-1:36	0.0	0	No	No	0.00	0.00	No	No
-1:35	0.0	0	No	No	0.00	0.00	No	No
-1:34	0.0	0	No	No	0.00	0.00	No	No
-1:33	0.0	0	No	No	0.00	0.00	No	No
-1:32	0.0	0	No	No	0.00	0.00	No	No
-1:31	0.0	0	No	No	0.00	0.00	No	No
-1:30	0.0	0	No	No	0.00	0.00	No	No
-1:29	0.0	0	No	No	0.00	0.00	No	No
-1:28	0.0	0	No	No	0.00	0.00	No	No
-1:27	0.0	0	No	No	0.00	0.00	No	No
-1:26	0.0	0	No	No	0.00	0.00	No	No
-1:25	0.0	0	No	No	0.00	0.00	No	No
-1:24	0.0	0	No	No	0.00	0.00	No	No
-1:23	0.0	0	No	No	0.00	0.00	No	No
-1:22	0.0	0	No	No	0.00	0.00	No	No
-1:21	0.0	0	No	No	0.00	0.00	No	No
-1:20	0.0	0	No	No	0.00	0.00	No	No
-1:19	0.0	0	No	No	0.00	0.00	No	No
-1:18	0.0	0	No	No	0.00	0.00	No	No
-1:17	0.0	0	No	No	0.00	0.00	No	No
-1:16	0.0	0	No	No	0.00	0.00	No	No
-1:15	0.0	0	No	No	0.00	0.00	No	No
-1:14	0.0	0	No	No	0.00	0.00	No	No
-1:13	0.0	0	No	No	0.00	0.00	No	No
-1:12	0.0	0	No	No	0.00	0.00	No	No
-1:11	0.0	0	No	No	0.00	0.00	No	No
-1:10	0.0	0	No	No	0.00	0.00	No	No
-1:09	0.0	0	No	No	0.00	0.00	No	No
-1:08	0.0	0	No	No	0.00	0.00	No	No
-1:07	0.0	0	No	No	0.00	0.00	No	No
-1:06	0.0	0	No	No	0.00	0.00	No	No
-1:05	0.0	0	No	No	0.00	0.00	No	No

DDEC® Reports - Last Stop Record

Print Date: 3/9/2017 6:24 PM
NTSB

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Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Last Stop Time: 3/7/2017 2:51:52 PM (EST) Last Stop Odometer: 62165.5 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-1:04	0.0	0	No	No	0.00	0.00	No	No
-1:03	0.0	0	No	No	0.00	0.00	No	No
-1:02	0.0	0	No	No	0.00	0.00	No	No
-1:01	0.0	0	No	No	0.00	0.00	No	No
-1:00	0.0	0	No	No	0.00	0.00	No	No
-0:59	0.0	0	No	No	0.00	0.00	No	No
-0:58	0.0	0	No	No	0.00	0.00	No	No
-0:57	0.0	0	No	No	0.00	0.00	No	No
-0:56	0.0	0	No	No	0.00	0.00	No	No
-0:55	0.0	0	No	No	0.00	0.00	No	No
-0:54	0.0	0	No	No	0.00	0.00	No	No
-0:53	0.0	0	No	No	0.00	0.00	No	No
-0:52	0.0	0	No	No	0.00	0.00	No	No
-0:51	0.0	0	No	No	0.00	0.00	No	No
-0:50	0.0	0	No	No	0.00	0.00	No	No
-0:49	0.0	0	No	No	0.00	0.00	No	No
-0:48	0.0	0	No	No	0.00	0.00	No	No
-0:47	0.0	0	No	No	0.00	0.00	No	No
-0:46	0.0	0	No	No	0.00	0.00	No	No
-0:45	0.0	0	No	No	0.00	0.00	No	No
-0:44	0.0	0	No	No	0.00	0.00	No	No
-0:43	0.0	0	No	No	0.00	0.00	No	No
-0:42	0.0	0	No	No	0.00	0.00	No	No
-0:41	0.0	0	No	No	0.00	0.00	No	No
-0:40	0.0	0	No	No	0.00	0.00	No	No
-0:39	0.0	0	No	No	0.00	0.00	No	No
-0:38	0.0	0	No	No	0.00	0.00	No	No
-0:37	0.0	0	No	No	0.00	0.00	No	No
-0:36	0.0	0	No	No	0.00	0.00	No	No
-0:35	0.0	0	No	No	0.00	0.00	No	No
-0:34	0.0	0	No	No	0.00	0.00	No	No
-0:33	0.0	0	No	No	0.00	0.00	No	No
-0:32	0.0	0	No	No	0.00	0.00	No	No
-0:31	0.0	0	No	No	0.00	0.00	No	No
-0:30	0.0	0	No	No	0.00	0.00	No	No
-0:29	0.0	0	No	No	0.00	0.00	No	No
-0:28	0.0	0	No	No	0.00	0.00	No	No
-0:27	0.0	0	No	No	0.00	0.00	No	No
-0:26	0.0	0	No	No	0.00	0.00	No	No
-0:25	0.0	0	No	No	0.00	0.00	No	No

DDEC® Reports - Last Stop Record

Print Date: 3/9/2017 6:24 PM
NTSB

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Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Last Stop Time: 3/7/2017 2:51:52 PM (EST) Last Stop Odometer: 62165.5 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-0:24	0.0	0	No	No	0.00	0.00	No	No
-0:23	0.0	0	No	No	0.00	0.00	No	No
-0:22	0.0	0	No	No	0.00	0.00	No	No
-0:21	0.0	0	No	No	0.00	0.00	No	No
-0:20	0.0	0	No	No	0.00	0.00	No	No
-0:19	0.0	0	No	No	0.00	0.00	No	No
-0:18	0.0	0	No	No	0.00	0.00	No	No
-0:17	0.0	0	No	No	0.00	0.00	No	No
-0:16	0.0	0	No	No	0.00	0.00	No	No
-0:15	0.0	0	No	No	0.00	0.00	No	No
-0:14	0.0	0	No	No	0.00	0.00	No	No
-0:13	0.0	0	No	No	0.00	0.00	No	No
-0:12	0.0	0	No	No	0.00	0.00	No	No
-0:11	0.0	0	No	No	0.00	0.00	No	No
-0:10	0.0	0	No	No	0.00	0.00	No	No
-0:09	0.0	0	No	No	0.00	0.00	No	No
-0:08	0.0	0	No	No	0.00	0.00	No	No
-0:07	0.0	0	No	No	0.00	0.00	No	No
-0:06	0.0	0	No	No	0.00	0.00	No	No
-0:05	0.0	0	No	No	0.00	0.00	No	No
-0:04	0.0	0	Yes	No	100.00	0.00	No	No
-0:03	0.0	152	Yes	No	8.00	0.00	No	No
-0:02	0.0	637	Yes	No	17.50	0.00	No	No
-0:01	1.0	918	Yes	No	8.00	14.40	No	No
0:00	0.0	612	Yes	No	15.00	0.00	No	No
+0:01	1.0	594	Yes	No	20.00	0.00	No	No
+0:02	1.5	598	Yes	No	20.00	0.00	No	No
+0:03	2.5	598	Yes	No	20.00	0.00	No	No
+0:04	3.0	605	Yes	No	18.00	0.00	No	No
+0:05	3.0	601	Yes	No	18.50	0.00	No	No
+0:06	2.0	609	Yes	No	15.50	0.00	No	No
+0:07	1.5	605	Yes	No	15.00	0.00	No	No
+0:08	1.0	601	Yes	No	15.50	0.00	No	No
+0:09	0.5	602	Yes	No	15.50	0.00	No	No
+0:10	0.0	600	Yes	No	15.50	0.00	No	No
+0:11	0.0	589	Yes	No	22.00	0.00	No	No
+0:12	0.0	615	Yes	No	15.00	0.00	No	No
+0:13	0.0	605	Yes	No	15.00	0.00	No	No
+0:14	0.0	603	Yes	No	14.50	0.00	No	No
+0:15	0.0	602	Yes	No	14.50	0.00	No	No

DDEC® Reports - Diagnostic Records #1

Print Date: 3/9/2017 6:24 PM

Trip: 01/30/15 12:14:35 To 03/09/17 (EST)

NTSB

Vehicle ID: HWY17MH010

Driver ID:

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Odometer: 62165.5 mi

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Engine S/N: 471934S0339152

Trip Distance	62165.6 mi	Trip Time	3098:58:44
Trip Fuel	10953.04 gal	Fuel Consumption	3.53 gal/h
Fuel Economy	5.68 mpg	Idle Time	1846:07:36
Avg Drive Load	40 %	Idle Percent	59.57 %
Avg Vehicle Speed	49.7 mph	Idle Fuel	2660.04 gal
		Parked Regen Time	2:19:46

Notes:

Not all faults that are displayed in Diagnostic Link (Fault Codes View) will be displayed here.
The diagnostic codes shown in DDEC Reports are a subset of all possible fault codes.

Diag. Code: **[3719/16] - DPF Filter Soot Level is High**

Diag. Time: 2/16/2017 3:23:56 PM (EST)

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Boost Press (psi)	Oil Press (psi)	Fuel Press (psi)
15:23:56	0.0	870	12.1	66.8	99.1
15:23:51	0.0	869	12.1	66.8	99.1
15:23:46	0.0	870	12.1	66.8	98.6
15:23:41	0.0	869	12.1	66.8	99.1
15:23:36	0.0	868	12.1	66.8	99.1
15:23:31	0.0	868	12.1	66.8	99.1
15:23:26	0.0	869	12.1	67.3	99.1
15:23:21	0.0	869	12.1	67.3	98.6
15:23:16	0.0	869	12.1	67.3	99.1
15:23:11	0.0	867	12.1	67.3	98.6
15:23:06	0.0	868	12.1	67.9	99.1
15:23:01	0.0	868	12.1	67.9	98.6

Time	Coolant Temp (°F)	Oil Temp (°F)	Fuel Temp (°F)	Engine Load (%)	Throttle (% throttle)
15:23:56	109.3	96.8	68.0	27.5	0.0
15:23:51	107.5	96.8	68.0	28.0	0.0
15:23:46	107.5	96.8	68.0	27.5	0.0
15:23:41	107.5	96.8	68.0	28.0	0.0
15:23:36	105.8	95.0	68.0	28.5	0.0
15:23:31	105.8	95.0	68.0	28.5	0.0
15:23:26	104.0	95.0	68.0	28.0	0.0
15:23:21	104.0	95.0	69.8	29.0	0.0
15:23:16	104.0	93.0	69.8	29.0	0.0
15:23:11	102.0	93.0	69.8	29.5	0.0
15:23:06	102.0	93.0	69.8	29.5	0.0
15:23:01	100.3	91.3	69.8	29.0	0.0

Time	Eng. Brake (cylinders)	Cruise	Accel Switch	Brake Switch	Clutch Switch
15:23:56	Off	No	No	No	No
15:23:51	Off	No	No	No	No
15:23:46	Off	No	No	No	No
15:23:41	Off	No	No	No	No
15:23:36	Off	No	No	No	No
15:23:31	Off	No	No	No	No
15:23:26	Off	No	No	No	No
15:23:21	Off	No	No	No	No
15:23:16	Off	No	No	No	No
15:23:11	Off	No	No	No	No
15:23:06	Off	No	No	No	No
15:23:01	Off	No	No	No	No

DDEC® Reports - Diagnostic Records #2

Print Date: 3/9/2017 6:24 PM

NTSB

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Trip: 01/30/15 12:14:35 To 03/09/17 (EST)
Vehicle ID: HWY17MH010
Driver ID:
Odometer: 62165.5 mi
Engine S/N: 471934S0339152

Trip Distance	62165.6 mi	Trip Time	3098:58:44
Trip Fuel	10953.04 gal	Fuel Consumption	3.53 gal/h
Fuel Economy	5.68 mpg	Idle Time	1846:07:36
Avg Drive Load	40 %	Idle Percent	59.57 %
Avg Vehicle Speed	49.7 mph	Idle Fuel	2660.04 gal
		Parked Regen Time	2:19:46

Notes:

Not all faults that are displayed in Diagnostic Link (Fault Codes View) will be displayed here.
The diagnostic codes shown in DDEC Reports are a subset of all possible fault codes.

Diag. Code: **[3719/15] - DPF Zone 3 Condition**
Diag. Time: 1/23/2017 7:13:48 PM (EST)

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Boost Press (psi)	Oil Press (psi)	Fuel Press (psi)
19:13:48	0.0	600	13.9	20.9	89.4
19:13:43	0.0	599	13.6	20.9	89.4
19:13:38	0.0	600	13.6	20.9	89.4
19:13:33	0.0	600	13.6	20.9	89.4
19:13:28	0.0	603	13.6	20.9	89.9
19:13:23	0.5	603	13.6	20.9	89.4
19:13:18	0.0	578	13.4	19.8	89.9
19:13:13	0.0	600	13.0	20.9	89.9
19:13:08	0.0	600	13.0	20.9	89.9
19:13:03	0.0	600	13.0	20.9	89.4
19:12:58	0.0	600	13.0	20.9	89.9
19:12:53	0.0	600	13.0	20.9	89.9

Time	Coolant Temp (°F)	Oil Temp (°F)	Fuel Temp (°F)	Engine Load (%)	Throttle (% throttle)
19:13:48	188.5	201.0	111.0	32.0	0.0
19:13:43	188.5	201.0	111.0	32.0	0.0
19:13:38	188.5	201.0	111.0	30.5	0.0
19:13:33	188.5	201.0	111.0	30.5	0.0
19:13:28	188.5	201.0	111.0	29.0	0.0
19:13:23	188.5	201.0	111.0	30.5	0.0
19:13:18	188.5	203.0	111.0	32.0	0.0
19:13:13	188.5	203.0	111.0	15.0	0.0
19:13:08	188.5	203.0	111.0	14.5	0.0
19:13:03	188.5	203.0	111.0	14.5	0.0
19:12:58	188.5	203.0	111.0	14.5	0.0
19:12:53	188.5	203.0	111.0	14.5	0.0

Time	Eng. Brake (cylinders)	Cruise	Accel Switch	Brake Switch	Clutch Switch
19:13:48	Off	No	No	Yes	No
19:13:43	Off	No	No	Yes	No
19:13:38	Off	No	No	Yes	No
19:13:33	Off	No	No	Yes	No
19:13:28	Off	No	No	Yes	No
19:13:23	Off	No	No	Yes	No
19:13:18	Off	No	No	Yes	No
19:13:13	Off	No	No	Yes	No
19:13:08	Off	No	No	Yes	No
19:13:03	Off	No	No	Yes	No
19:12:58	Off	No	No	Yes	No
19:12:53	Off	No	No	Yes	No

DDEC® Reports - Diagnostic Records #3

Print Date: 3/9/2017 6:24 PM

Trip: 01/30/15 12:14:35 To 03/09/17 (EST)

NTSB

Vehicle ID: HWY17MH010

Driver ID:

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Odometer: 62165.5 mi

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Engine S/N: 471934S0339152

Trip Distance	62165.6 mi	Trip Time	3098:58:44
Trip Fuel	10953.04 gal	Fuel Consumption	3.53 gal/h
Fuel Economy	5.68 mpg	Idle Time	1846:07:36
Avg Drive Load	40 %	Idle Percent	59.57 %
Avg Vehicle Speed	49.7 mph	Idle Fuel	2660.04 gal
		Parked Regen Time	2:19:46

Notes:

Not all faults that are displayed in Diagnostic Link (Fault Codes View) will be displayed here.
The diagnostic codes shown in DDEC Reports are a subset of all possible fault codes.

Diag. Code: **[3719/15] - DPF Zone 3 Condition**

Diag. Time: 2/13/2017 10:43:10 AM (EST)

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Boost Press (psi)	Oil Press (psi)	Fuel Press (psi)
10:43:10	0.0	599	13.9	58.6	92.8
10:43:05	0.0	599	13.9	58.6	92.8
10:43:00	0.0	600	13.9	58.6	92.8
10:42:55	0.0	599	13.9	58.6	92.8
10:42:50	0.0	600	13.9	58.6	92.8
10:42:45	0.0	600	13.9	58.6	92.8
10:42:40	0.0	599	13.9	58.6	92.8
10:42:35	0.0	599	13.9	58.6	92.8
10:42:30	0.0	600	13.9	58.6	92.8
10:42:25	0.0	600	13.9	59.1	92.8
10:42:20	0.0	601	13.9	59.1	92.8
10:42:15	0.0	601	13.9	59.1	92.8

Time	Coolant Temp (°F)	Oil Temp (°F)	Fuel Temp (°F)	Engine Load (%)	Throttle (% throttle)
10:43:10	123.8	109.3	69.8	24.5	0.0
10:43:05	122.0	109.3	69.8	24.5	0.0
10:43:00	123.8	109.3	69.8	24.5	0.0
10:42:55	122.0	107.5	69.8	24.5	0.0
10:42:50	122.0	107.5	69.8	24.0	0.0
10:42:45	122.0	107.5	69.8	24.5	0.0
10:42:40	122.0	107.5	69.8	24.5	0.0
10:42:35	122.0	107.5	69.8	24.5	0.0
10:42:30	122.0	107.5	69.8	24.5	0.0
10:42:25	120.0	107.5	69.8	24.5	0.0
10:42:20	120.0	105.8	69.8	24.5	0.0
10:42:15	120.0	105.8	69.8	24.5	0.0

Time	Eng. Brake (cylinders)	Cruise	Accel Switch	Brake Switch	Clutch Switch
10:43:10	Off	No	No	No	No
10:43:05	Off	No	No	Yes	No
10:43:00	Off	No	No	Yes	No
10:42:55	Off	No	No	Yes	No
10:42:50	Off	No	No	Yes	No
10:42:45	Off	No	No	Yes	No
10:42:40	Off	No	No	Yes	No
10:42:35	Off	No	No	Yes	No
10:42:30	Off	No	No	Yes	No
10:42:25	Off	No	No	Yes	No
10:42:20	Off	No	No	Yes	No
10:42:15	Off	No	No	Yes	No

ACM21T - Aftertreatment Control Module 2.1

4 faults

DPF Zone 3 Condition (3719/15)

previously confirmed, previously active

UDS Code	870E0F
First Occurrence	1/17/2017 11:58:26 PM Coordinated Universal Time
Last Occurrence	2/13/2017 3:43:10 PM Coordinated Universal Time
J1587	SID 156 FMI 15
Extended Data Record #1 "Counter"	
DTC Occurence Counter	3
Seconds Active Counter	11717
DC Hours Inactive Counter	94 h
Extended Data Record #2 "Time Stamp"	
First Occurence Engine Hours	2774
Last Occurence Engine Hours	3001
Extended Data Record #3 "Physical Data"	
Actuator State	2
DPF CAN condition idle	00
DPF staus	0
DPF HC flag	00
DPF Regeneration flag	01
DPF SP thermo status	3
DPF State status	4
Reserved	255
Ext. Environment Data	65535
Ambient air temperature	53.60 °F
Extended Data Record #4 "Fault Code Data"	
SAEJ1939	3719
OBD/EMD Code	1D9E00
DCX Fault Path	0
DCX Fault Type	231
Flash Code 1	0664
Extended Data Record #5 "Enhanced Environmental Data"	
DPF Zone	3
Engine Speed	608.0 rpm
EOM state	Low Idle
Inhibit regeneration	Inactive
NOx out sensor Content	1650 ppm
NOx raw sensor Content	1650 ppm
DEF Air Pressure	22.046 psi
DPF Inlet Pressure	0.058 psi
DPF Outlet Pressure	0.000 psi
DEF pressure	51.053 psi
Regeneration Activation Request	Off
ISP Regeneration Active	00
ISP SCR DOS ready	01
DOC Inlet Temperature	276.80 °F
DOC Outlet Temperature	320.00 °F

isp_t_docb_out	signal not °F
DPF Outlet Temperature	262.40 °F
isp_t_scr_cat_2	271.40 °F
DEF temperature	signal not °F
DEF Tank Temperature	75.20 °F
ISP actual torque	14.000 %
Battery Voltage	14.08 V
SCR_ads DOS system enable	01
SCR_ads priming request	1
SCR_sp CAN enable	01
SCR_sp components enable	01
UDC DEF quantity request	0 g/h
SCM E2P error flag	0
isp exgas mass flow rate	154.1 kg/h
isp trq current	34.08 ft-lb
isp p dpf in 2m out	0.063 psi
isp p dpf out 2m out	-0.045 psi
isp scr ads p DEF	145.01 psi
isp scr ads n pump	1179 rpm
isp l DEF tank	97.010 %
isp scr ads enable dosing b	1
scr_mon_cnv_rto_low_DEF_dilu	0.00 %
scr_mon_cnv_rto_hgh_DEF_dilu	0.00 %
scr_mon_nox_rto_rat_chk	1.00000
scr_mon_rto_nox_raw_rat_chk	0.00000
Extended Data Record Number 6th Data Record "Torque Limiter Data"	
Torque Limiter debounce counter	65535
Torque Limiter active bit	0
Torque Limiter state bit	Signal not available
MI request Info	MI_OFF
Calibrated fault reaction	00000000
Calibrated fault reaction 2	0000
Calibrated fault reaction 3	00
Extended Data Record Number 7th Data Record "DPRS Data Record"	
Occurence flag	00
First Occurence Total distance High byte / Low byte	57076.7 miles
Last Occurence Total distance High byte / Low byte	60049.3 miles
Frequency counter	3
Operating cycle counter	44

Soot Level High (3719/16)	**previously confirmed, previously active**
UDS Code	870E10
First Occurrence	2/16/2017 8:23:55 PM Coordinated Universal Time
Last Occurrence	2/16/2017 8:23:55 PM Coordinated Universal Time
J1587	SID 154 FMI 16
Extended Data Record #1 "Counter"	
DTC Occurence Counter	1
Seconds Active Counter	2834
DC Hours Inactive Counter	94 h
Extended Data Record #2 "Time Stamp"	
First Occurence Engine Hours	3002
Last Occurence Engine Hours	3002
Extended Data Record #3 "Physical Data"	
Actuator State	2
DPF CAN condition idle	00
DPF staus	4
DPF HC flag	00
DPF Regeneration flag	00
DPF SP thermo status	3
DPF State status	2
Reserved	255
Ext. Environment Data	65535
Ambient air temperature	68.00 °F
Extended Data Record #4 "Fault Code Data"	
SAEJ1939	3719
OBD/EMD Code	246300
DCX Fault Path	0
DCX Fault Type	223
Flash Code 1	0658
Extended Data Record #5 "Enhanced Environmental Data"	
DPF Zone	4
Engine Speed	864.0 rpm
EOM state	Power Take Off
Inhibit regeneration	Inactive
NOx out sensor Content	1650 ppm
NOx raw sensor Content	1650 ppm
DEF Air Pressure	22.046 psi
DPF Inlet Pressure	0.102 psi
DPF Outlet Pressure	0.000 psi
DEF pressure	50.473 psi
Regeneration Activation Request	Off
ISP Regeneration Active	00
ISP SCR DOS ready	01
DOC Inlet Temperature	262.40 °F
DOC Outlet Temperature	248.00 °F
isp_t_docb_out	signal not °F

DPF Outlet Temperature	204.80 °F
isp_t_scr_cat_2	125.60 °F
DEF temperature	signal not °F
DEF Tank Temperature	53.60 °F
ISP actual torque	17.000 %
Battery Voltage	14.08 V
SCR_ads DOS system enable	01
SCR_ads priming request	1
SCR_sp CAN enable	01
SCR_sp components enable	01
UDC DEF quantity request	0 g/h
SCM E2P error flag	0
isp exgas mass flow rate	284.9 kg/h
isp trq current	150.31 ft-lb
isp p dpf in 2m out	0.100 psi
isp p dpf out 2m out	-0.027 psi
isp scr ads p DEF	144.98 psi
isp scr ads n pump	1201 rpm
isp l DEF tank	99.740 %
isp scr ads enable dosing b	1
scr_mon_cnv_rto_low_DEF_dilu	0.00 %
scr_mon_cnv_rto_hgh_DEF_dilu	0.00 %
scr_mon_nox_rto_rat_chk	1.00000
scr_mon_rto_nox_raw_rat_chk	0.00000
Extended Data Record Number 6th Data Record "Torque Limiter Data"	
Torque Limiter debounce counter	65535
Torque Limiter active bit	0
Torque Limiter state bit	Signal not available
MI request Info	MI_OFF
Calibrated fault reaction	00000008
Calibrated fault reaction 2	0000
Calibrated fault reaction 3	00
Extended Data Record Number 7th Data Record "DPRS Data Record"	
Occurence flag	00
First Occurence Total distance High byte / Low byte	60049.3 miles
Last Occurence Total distance High byte / Low byte	60049.3 miles
Frequency counter	1
Operating cycle counter	44

DPF Zone 2 Condition (3719/31)	**previously confirmed, previously active**
UDS Code	870E1F
First Occurrence	12/30/2016 4:27:42 PM Coordinated Universal Time
Last Occurrence	2/10/2017 9:21:26 PM Coordinated Universal Time
J1587	SID 156 FMI 31
Extended Data Record #1 "Counter"	
DTC Occurence Counter	4
Seconds Active Counter	30765
DC Hours Inactive Counter	96 h
Extended Data Record #2 "Time Stamp"	
First Occurence Engine Hours	2584
Last Occurence Engine Hours	2999
Extended Data Record #3 "Physical Data"	
Actuator State	3
DPF CAN condition idle	00
DPF staus	4
DPF HC flag	00
DPF Regeneration flag	01
DPF SP thermo status	3
DPF State status	4
Reserved	255
Ext. Environment Data	65535
Ambient air temperature	68.00 °F
Extended Data Record #4 "Fault Code Data"	
SAEJ1939	3719
OBD/EMD Code	1D9D00
DCX Fault Path	0
DCX Fault Type	230
Flash Code 1	0663
Extended Data Record #5 "Enhanced Environmental Data"	
DPF Zone	2
Engine Speed	608.0 rpm
EOM state	Low Idle
Inhibit regeneration	Inactive
NOx out sensor Content	1650 ppm
NOx raw sensor Content	260 ppm
DEF Air Pressure	22.046 psi
DPF Inlet Pressure	0.073 psi
DPF Outlet Pressure	0.000 psi
DEF pressure	51.053 psi
Regeneration Activation Request	Off
ISP Regeneration Active	00
ISP SCR DOS ready	01
DOC Inlet Temperature	406.40 °F
DOC Outlet Temperature	406.40 °F
isp_t_docb_out	signal not °F

DPF Outlet Temperature	348.80 °F
isp_t_scr_cat_2	334.40 °F
DEF temperature	signal not °F
DEF Tank Temperature	75.20 °F
ISP actual torque	31.000 %
Battery Voltage	14.08 V
SCR_ads DOS system enable	01
SCR_ads priming request	1
SCR_sp CAN enable	01
SCR_sp components enable	01
UDC DEF quantity request	404 g/h
SCM E2P error flag	0
isp exgas mass flow rate	170.9 kg/h
isp trq current	237.05 ft-lb
isp p dpf in 2m out	0.073 psi
isp p dpf out 2m out	-0.036 psi
isp scr ads p DEF	144.98 psi
isp scr ads n pump	1180 rpm
isp l DEF tank	99.730 %
isp scr ads enable dosing b	1
scr_mon_cnv_rto_low_DEF_dilu	0.00 %
scr_mon_cnv_rto_hgh_DEF_dilu	0.00 %
scr_mon_nox_rto_rat_chk	1.00000
scr_mon_rto_nox_raw_rat_chk	0.00000
Extended Data Record Number 6th Data Record "Torque Limiter Data"	
Torque Limiter debounce counter	65535
Torque Limiter active bit	0
Torque Limiter state bit	Signal not available
MI request Info	MI_OFF
Calibrated fault reaction	00000000
Calibrated fault reaction 2	0000
Calibrated fault reaction 3	00
Extended Data Record Number 7th Data Record "DPRS Data Record"	
Occurence flag	00
First Occurence Total distance High byte / Low byte	53954.9 miles
Last Occurence Total distance High byte / Low byte	60049.3 miles
Frequency counter	4
Operating cycle counter	50

ACM Power Down - Key Off Purge Cycle (158/7)	**previously confirmed, previously active**
UDS Code	9E0007
First Occurrence	Signal not/Signal not/Signal not Signal not:Signal not:Signal not GMT
Last Occurrence	Signal not/Signal not/Signal not Signal not:Signal not:Signal not GMT
J1587	PID 158 FMI 7
Extended Data Record #1 "Counter"	
DTC Occurence Counter	1
Seconds Active Counter	139
DC Hours Inactive Counter	0 h
Extended Data Record #2 "Time Stamp"	
First Occurence Engine Hours	13398
Last Occurence Engine Hours	13398
Extended Data Record #3 "Physical Data"	
Actuator State	0
DPF CAN condition idle	00
DPF staus	4
DPF HC flag	00
DPF Regeneration flag	00
DPF SP thermo status	0
DPF State status	0
Reserved	255
Ext. Environment Data	65535
Ambient air temperature	Signal not °F
Extended Data Record #4 "Fault Code Data"	
SAEJ1939	158
OBD/EMD Code	1E6000
DCX Fault Path	1
DCX Fault Type	151
Flash Code 1	0000
Extended Data Record #5 "Enhanced Environmental Data"	
DPF Zone	0
Engine Speed	signal not rpm
EOM state	Signal not available
Inhibit regeneration	Inactive
NOx out sensor Content	Signal not ppm
NOx raw sensor Content	Signal not ppm
DEF Air Pressure	22.046 psi
DPF Inlet Pressure	0.000 psi
DPF Outlet Pressure	0.000 psi
DEF pressure	7.542 psi
Regeneration Activation Request	Off
ISP Regeneration Active	00
ISP SCR DOS ready	00
DOC Inlet Temperature	60.80 °F

DOC Outlet Temperature	signal not °F
isp_t_docb_out	signal not °F
DPF Outlet Temperature	60.80 °F
isp_t_scr_cat_2	66.20 °F
DEF temperature	signal not °F
DEF Tank Temperature	64.40 °F
ISP actual torque	signal not %
Battery Voltage	0.00 V
SCR_ads DOS system enable	00
SCR_ads priming request	0
SCR_sp CAN enable	00
SCR_sp components enable	00
UDC DEF quantity request	0 g/h
SCM E2P error flag	0
isp exgas mass flow rate	Signal not kg/h
isp trq current	0.00 ft-lb
isp p dpf in 2m out	-0.598 psi
isp p dpf out 2m out	-0.598 psi
isp scr ads p DEF	0.00 psi
isp scr ads n pump	0 rpm
isp l DEF tank	Value out of %
isp scr ads enable dosing b	0
scr_mon_cnv_rto_low_DEF_dilu	0.00 %
scr_mon_cnv_rto_hgh_DEF_dilu	0.00 %
scr_mon_nox_rto_rat_chk	0.00000
scr_mon_rto_nox_raw_rat_chk	0.00000
Extended Data Record Number 6th Data Record "Torque Limiter Data"	
Torque Limiter debounce counter	65535
Torque Limiter active bit	0
Torque Limiter state bit	Signal not available
MI request Info	MI_OFF
Calibrated fault reaction	00000000
Calibrated fault reaction 2	0000
Calibrated fault reaction 3	00
Extended Data Record Number 7th Data Record "DPRS Data Record"	
Occurence flag	00
First Occurence Total distance High byte / Low byte	signal not miles
Last Occurence Total distance High byte / Low byte	signal not miles
Frequency counter	1
Operating cycle counter	1

CPC04T - Common Powertrain Controller 4

Angular Speed

ASL: Actual Engine Speed	0 rpm
ASL: Demanded Engine Speed	608 rpm
ASL: EC P1 Speed	608 rpm
ASL: EC P2 Speed	2080 rpm
ASL: EC P3 Speed	976 rpm
ASL: EC P4 Speed	1240 rpm
ASL: EC P5 Speed	1712 rpm
ASL: EC P6 Speed	2147 rpm
ASL: EC P7 Speed	2480 rpm
ASL: Maximum Engine Speed	2900 rpm
ASL: Minimum Engine Speed	592 rpm
ASL: Nmax Gov0 rpm	4000 rpm
ASL: Nmax Gov4 rpm	4000 rpm
ASL: Nmax Gov5 rpm	4000 rpm
ASL: Torque Speed Command Engine Speed Limit	* rpm
ASL: Torque Speed Command Engine Speed Request	* rpm

Economy

ASL: Average Fuel Economy	5.683 mpg
ASL: FEI Momentary Fuel Eco for Diag	0.000 mpg
ASL: Instantaneous Fuel Economy	0.000 mpg

Flow

ASL: Amount of Fuel Consumed by Engine	0.000 gal/hr

Mass

ASL: Vehicle Mass	61306 pound

Percentage

ASL: Accelerator Pedal Position	0.0 %
ASL: Accelerator Pedal Raw Sensor Value	0.0 %
ASL: Analog Remote Pedal	0.0 %
ASL: Coolant Level	100 %
ASL: DPF Ash Volume	17.500 %
ASL: EC P1 Torque	60 %
ASL: EC P2 Torque	57 %
ASL: EC P3 Torque	82 %
ASL: EC P4 Torque	100 %
ASL: EC P5 Torque	87 %
ASL: Idle Volume Position Signal	0 %
ASL: J1939 CM1 Fan Sa1 Request	* %
ASL: J1939 CM1 Fan Sa2 Request	* %
ASL: PWM Output	100 %
ASL: PWM Pedal Signal GAS1	21 %
ASL: PWM Pedal Signal GAS2	11 %
ASL: SPN512 Drivers Demand Percent Torque	0 %

ASL: SPN513 Actual Engine Percent Torque	0 %
ASL: SPN92 Percent Load at Current Speed	0 %
ASL: Torque Speed Command Engine Torque Limit	* %
ASL: Torque Speed Command Engine Torque Request	* %

Pressure

ASL: Air Filter Pressure	* psi
ASL: Diesel Fuel Pressure	11.6 psi
ASL: Oil Pressure	0.00 psi

Speed

ASL: Maximum Road Speed Limit	70.8 mph
ASL: Predictive Cruise Control Offset	0.00 mph
ASL: Road Speed	0.0 mph
ASL: Set Speed Cruise Control	0.0 mph

Temperature

ASL: Air Intake Temperature	75 °F
ASL: Ambient Air Temperature	77 °F
ASL: Coolant Temperature	68 °F
ASL: Oil Temperature	66 °F

Time

ASL: Idle/PTO Shutdown Timer	0.00 s
ASL: Optimized Idle Time	0 s
ASL: Total Engine Shutdown Time	0 s

Torque

ASL: Absolute Max Torque	1652.1 ft-lb
ASL: Actual Torque	-90.7 ft-lb
ASL: Calculated Pedal Torque	0.0 ft-lb
ASL: Corrected Actual Torque	-90.7 ft-lb
ASL: Demand Engine Torque	0.0 ft-lb
ASL: Friction Torque	0.0 ft-lb
ASL: ITPM ITM Torque limit	3687.81 ft-lb
ASL: Max Retarder Torque	0.0 ft-lb
ASL: Reference Torque	1796.0 ft-lb

Voltage

ASL: Air Filter Sensor Voltage	0.000 V
ASL: Coolant Level Sensor Voltage	1.060 V
ASL: Ignition Switch Voltage	12.19 V
ASL: Main Battery Voltage	12.19 V
ASL: Supply Analog Accelerator Pedal	4.980 V
ASL: Supply Analog Remote Pedal	4.970 V

*

ASL: Engine Brake Lever Position	0
ASL: Governor Type	15
ASL: Power Rating Actual Engine Map	0
ASL: Power Rating Requested Engine Map	0
ASL: Shutdown Engine Override Count	0

ASL: Ss cabine controll mode state machine status	255

*** (enumeration)**

ASL: CC Actual Off Cond Stat	powertrain open NAFTA
ASL: CC hysteresis band stage	SNA
ASL: Cruise Control Deactivate Status	Service brake actuated when cruise control active in drive mode
ASL: EBM Brk Display Inputs	BRKDIS_ENG_SPEED
ASL: EBM Drv Brk Display Inputs	DRVDIS_ENG_SPEED
ASL: EBM Drv Stat	DRVSTAT_OFF
ASL: EBM Drv Tret Brk Display Inputs	DRVTRETDIS_STAGES_CONFIG
ASL: EBM Tret Brk Display Inputs	TRETDIS_STAGES_CONFIG
ASL: EBM Trq Mode Path Inputs	TRQMODE_ALLOFF
ASL: EBM Tsc1 Brk Display Inputs	TSC1DIS_ENG_SPEED
ASL: EBM Tsc1 Tret Brk Display Inputs	TSC1DIS_CONFIG
ASL: EEC1 Controlling Device SA	Engine #1
ASL: ERC1 Controlling Device SA	GLOBAL (All-Any Node)
ASL: Engine Brake Path State	EBM_NOT_ACTIVE
ASL: Engine Ecu Combination	HDEP_MCM
ASL: Governor Path State	IDLE_GOV
ASL: Inducement Status	no inducement
ASL: LIM Accel Path Inputs	MAX_ACCEL
ASL: LIM Itm Dis Path Inputs	ITMDIS_CONFIG
ASL: LIM Trq Path Stat	NO_LIM_TRQ_LIM
ASL: Latest OI Dropout Reason t0	OI enable fault
ASL: Latest OI Dropout Reason t-1	OI enable fault
ASL: Latest OI Dropout Reason t-2	OI enable fault
ASL: Latest OI Dropout Reason t-3	OI enable fault
ASL: Latest OI Dropout Reason t-4	OI enable fault
ASL: MCM UDS Synch Status	MCMSYNC_READY_FOR_MCM_TOOL_CONNECT
ASL: Maximum Speed Path State	STANDSTILL
ASL: Minimum Speed Path State	GENERAL_MIN_SPEED
ASL: OI Thermostat Status	snv
ASL: Optimized Idle Alarm Status	snv
ASL: Optimized Idle Lamp Status	snv
ASL: Optimized Idle Run Reason Status	Thermostat_Regular
ASL: Optimized Idle System Status	OI_NOT_ARMED_FOR_CYCLE
ASL: PTO Status	Engine Off
ASL: Predictive Cruise Control Internal State	PCC_DISABLED
ASL: Proprietary Vehicle Power Shutdown Message	active
ASL: RSL Path Vspeed Adder Information	ADD_NONE
ASL: RSL Path Vspeed Limiter Information	MAX_ROADSPEED
ASL: Requested Remote PTO Speed	no Remote Speed Requested
ASL: Speed Path State	IDLE_SPEED
ASL: Torque Path State	THROTTLE_INPUT
ASL: Torque Speed Command Sender	GLOBAL (All-Any Node)
ASL: Vehicle Power Shutdown Status	snv
DSL: ABS System Active	signal not available
DSL: Accelerator Pedal Kick Down Status	not available

DSL: Air Conditioner Status	not available
DSL: Amber Warning Lamp	off
DSL: CC-Quit-signal EvoBus lever	signal not available
DSL: Cab PTO Enable	not active
DSL: Cab PTO Resume/Accel	not active
DSL: Cab PTO Set/Coast	not active
DSL: Carb Nox Speed Limiter Flag	not active
DSL: Clutch Open	signal not available
DSL: Clutch Overload Status	no warning
DSL: Continuous Shutdown Override Active	not active
DSL: Creep Active	not active
DSL: Creep Enable	not active
DSL: Cruise Active Lamp	off
DSL: Cruise Control Enable	open
DSL: Cruise Control Pause	signal not available
DSL: Cruise Control Resume/Accel	open
DSL: Cruise Control Set/Coast	open
DSL: Cruise Control Status	Off
DSL: DEF Lamp (Low Level)	off
DSL: DEF Lamp (System Status)	not available
DSL: DPF Inhibit Switch Status	not active, Shorted to ground
DSL: DPF Regen Switch Status	open
DSL: DPF Regeneration Lamp	off
DSL: Deceleration Lamp	not configured
DSL: Drive Requested Engine Brake Disable	not available
DSL: Engine Brake Active	not active
DSL: Engine Brake Disable	signal not available
DSL: Engine Brake Low	open
DSL: Engine Brake Medium	open
DSL: Ether Start	not available
DSL: External Engine Shutdown Switch	signal not available
DSL: External Engine Shutdown via J1939	signal not available
DSL: Fan Control Override	open
DSL: Fast Engine Heat Up Switch	signal not available
DSL: High Exhaust System Temperature Lamp	not configured
DSL: Hood Tilt Switch	signal not available
DSL: Idle/PTO Shutdown Driver Alert	not active
DSL: Idle/PTO Shutdown Occurred	not active
DSL: Idle/PTO Timer Active	not active
DSL: Idle Validation Switch 1	open
DSL: Idle Validation Switch 2	open
DSL: Idle Volume Active Status	not available
DSL: Ignition Switch	closed, Shorted to battery
DSL: Inducement Limiter Active Lamp	not available
DSL: Limiter 0 Set Switch	open
DSL: Limiter 1 Set Switch	open
DSL: Low Battery Voltage Lamp	off
DSL: Low Coolant Level Lamp	off
DSL: Low Oil Pressure Lamp	off

DSL: Malfunction Indicator Lamp	off
DSL: Neutral Switch	closed, gear in neutral
DSL: Noise Lim Veh Conf Flag	not active
DSL: Parking Brake	closed, Short to ground
DSL: RPM Freeze Switch	signal not available
DSL: Red Stop Lamp	off
DSL: Remote Accelerator Select Switch	signal not available
DSL: Remote VSG Switch	signal not available
DSL: Retarder Lever Input 0	signal not available
DSL: Retarder Lever Input 1	signal not available
DSL: Retarder Lever Input 2	signal not available
DSL: Retarder Lever Input 3	signal not available
DSL: Retarder Lever Input 4	signal not available
DSL: Retarder Lever Input 5	signal not available
DSL: Rsl Com Deb Status	not active
DSL: Service Brake	Pedal released, shorted to ground
DSL: Shift Program Status	not available
DSL: Shifter Lever Gear Down	off
DSL: Shifter Lever Gear Up	off
DSL: Shutdown Override	open
DSL: Starter Lockout/Run Signal	not active
DSL: Starter Signal	off (open)
DSL: Status Cc Retarder Stage 1 Control	not active
DSL: Status Cc Retarder Stage 2 Control	not active
DSL: Status Engine Break Disable Switch	signal not available
DSL: Status Limiter 2 Switch	signal not available
DSL: Status Vehicle Mass	invalid
DSL: Throttle Inhibit	open
DSL: Throttle Inhibit (Crane Ss)	signal not available
DSL: Throttle Inhibit Status	not active
DSL: Transmission Retarder Active	open
DSL: Two Speed Axle Switch	signal not available
DSL: Wait to Start Lamp	not configured
DSL: Water-in-Fuel Lamp	off
DSL: eCoast Active	not active
DSL: eCoast Enabled	not active
DSL: for future use #1	signal not available
DSL: for future use #2	signal not available

kgm^2

ASL: J1939 Moment of Inertia	1.04 kgm^2

MCM21T - Motor Control Module 2.1

Angular Speed

AS104: Amplitudes of the average spectral line 1	0.000 rpm
AS105: Amplitudes of the average spectral line 3	0.000 rpm
AS106: Speed increase, Cylinder 1	0.0 rpm
AS107: Speed increase, Cylinder 2	0.0 rpm
AS108: Speed increase, Cylinder 3	0.0 rpm
AS109: Speed increase, Cylinder 4	0.0 rpm

AS110: Speed increase, Cylinder 5	0.0 rpm
AS111: Speed increase, Cylinder 6	0.0 rpm
AS112: Speed increase, Cylinder 7	0.0 rpm
AS113: Speed increase, Cylinder 8	0.0 rpm
AS131: Crankcase Ventilator Oil Separator Speed	0 rpm
AS171: Desired speed of waterpump	0.0 rpm
AS172: Input drive for waterpump	0.0 rpm
AS173: Current speed of waterpump	0.0 rpm
ASL002: Engine Speed	0 rpm
ASL002: Maximum Engine Speed	2080.0 rpm
ASL002: PTO Set Speed	Signal not available rpm
ASL002: Redundant Engine Speed	Signal not available rpm
ASL002: Requested Engine Speed	600 rpm
ASL002: Turbo Speed 1	0 rpm
ASL006: Fan Speed	0 rpm

Flow

AS114: RPG COMPENSATION	0.000 gal/hr

Mass Flow

AS088: Measured Air Mass	0.0000 kg/s
AS091: Intake Air Flow Rate	0.0000 kg/s
AS132: Fuel Trim	0.00000 kg/s
AS150: Engine Inlet Air Mass Flow Rate 2	0.0000 kg/s
AS153: Desired EGR Mass Flow Rate	0.0000 kg/s
AS154: EGR Mass Flow Rate 2	0.0000 kg/s

Percentage

AS077: Fuel Cut Off Valve	0.00 %
AS089: Wastegate request signal	0 %
AS090: Wastegate return position	0.0 %
AS094: Actual Torque Load	0 %
AS125: Fuel Filter State	7 %
AS133: EGR Error between Actual and Commanded	0.00 %
AS134: Commanded Boost Pressure	30.10 %
AS145: Read throttle valve position of PBS	SNV %
AS151: Throttle Valve Position 2	0.00 %
AS174: PWM f1 for module waterpump clutch	0.00 %
AS176: Oil Level Sensor Coverage	0.00 %
ASL001: APCRS Rail Pressure Valve Position	50.00 %
ASL004: EGR Actual Valve Position	4.85 %
ASL004: EGR Commanded Governor Value	5.00 %
ASL004: Fan - (PWM06)	100.00 %
ASL004: Fuel Doser Injection Status	0.00 %
ASL004: Jake Brake 1 - (PWM13)	0.00 %
ASL004: Jake Brake 2 - (PWM07)	0.00 %
ASL004: Throttle Valve Actual Position	0.00 %
ASL004: Throttle Valve Commanded Value	0.00 %
ASL004: VTG 1 Commanded Governor Value	5.00 %
Idle Speed Balance Values: Cylinder #1	-3 %
Idle Speed Balance Values: Cylinder #2	0 %
Idle Speed Balance Values: Cylinder #3	0 %

Idle Speed Balance Values: Cylinder #4	-1 %
Idle Speed Balance Values: Cylinder #5	0 %
Idle Speed Balance Values: Cylinder #6	6 %

Pressure

AS036: DPF Inlet Pressure	0.00 psi
AS037: DPF Outlet Pressure	0.00 psi
AS124: LPPO Fuel Pressure	15.84 psi
AS143: Read inlet pressure of PBS (Knorr)	Signal not available psi
AS144: Read outlet pressure of PBS (Knorr)	Signal not available psi
AS152: Delta Pressure EGR Part 2	0.0290 psi
ASL003: Differential Pressure ICooler Out	0.0000 psi
ASL003: Doser Fuel Line Pressure	7.25 psi
ASL003: EGR Delta Pressure	0.0290 psi
ASL003: Exhaust Manifold Pressure	145.038 psi
ASL003: Fuel Compensation Pressure	15.45 psi
ASL003: Inlet Manifold Pressure	14.79 psi
ASL003: Oil Pressure	0.00 psi
ASL003: Pressure ICooler Out	14.830 psi
ASL006: Barometric Pressure	14.79 psi

Speed

AS161: Average speed of vehicle doser fuel consumption history currently not completed hours cycle	7.5 mph
AS162: Average speed of vehicle doser fuel consumption history of last fully completed hours cycle	20.5 mph
ASL002: Vehicle Speed	0.0 mph

Temperature

AS040: DOC Inlet Temperature	77 °F
AS041: DOC Outlet Temperature	77 °F
AS168: ACM ambient temperature	171.5 °F
AS169: Coolant out temperature	67 °F
ASL005: Charge Air Cooler Outlet Temperature	77 °F
ASL005: Coolant Temperature	66 °F
ASL005: Coolant Temperatures 2	64 °F
ASL005: EGR Temperature after Cooler	32 °F
ASL005: Exhaust Manifold Temperature	76 °F
ASL005: Fuel Temperature	66 °F
ASL005: Inlet Manifold Temperature	75 °F
ASL005: Oil Temperature	64 °F
ASL005: Temperature Compressor In	86 °F
ASL005: Temperature Compressor Out	356 °F

Time

AS097: Water in Fuel Lifetime Count	0 s
AS126: Fuel Temperature 2 High Counter	0.00 min
AS140: Last engine start counter	0 s
AS142: Nox Starter Release Counter	119 sec
AS158: Time passed since last doser fuel consumption history reset	258.8 min
AS177: Time since last engine shutdown	0 min
ASL002: Main Injection Time (Average)	0.000 msec

ASL007: Engine Operating Hours	3098 h

Torque

ASL002: Actual Torque	0.0 ft-lb
ASL002: Maximum Available Torque	0.00 ft-lb
ASL002: Requested Torque	0.0 ft-lb

Voltage

AS166: EGR Position	0.00 V
ASL006: Battery Voltage	12.160 V
ASL006: Water Level for Fuel Filter Water Separator	4.159 V

Volume

AS155: Total fuel consumption since EHM deleted	10809.7 gal
AS156: Total doser fuel consumption history of currently not completed hours cycle	6.6 gal
AS157: Total doser fuel consumption history over last fully completed hours cycle	183.9 gal
AS178: Corrected Oil Reflux Compensation	0.0000 gal
AS179: Uncorrected Oil Volume (w/o Reflux)	0.0000 gal
ASL006: Oil Level	0.0000 gal

-

AS101: Nozzle Opening Pressure Actual	-1.0000 -
AS127: Sporadic Defect Sensornumber Storeplace1 Frame IS1	0 -
AS128: Sporadic Defect Sensornumber Storeplace2 Frame IS1	0 -
AS129: Sporadic Defect Sensornumber Storeplace1 Frame IS4	0 -
AS130: Sporadic Defect Sensornumber Storeplace2 Frame IS4	0 -
AS135: Air/Fuel Ratio Sensor Output	0.00 -

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AS071: Smoke Control Status	0.00
AS093: Weight Factor Ambient Cold	0.80
AS115: HP Leak Actual Value	1.3
AS136: TestCounter	200
AS137: Continuous MI counter	0
AS138: Cumulative continuous MI counter	0
AS141: MIL-on fault count	0.00
AS146: read actual lambda	0.00
AS147: read actual lambda for momentary fuel mass	65.535
AS165: Rail pressure governor pump leak valve open counter	1
AS170: Current slip of waterpump	0.000
AS175: Extreme parameter for SPN 4765/FMI 0	0
AS180: Extreme Parameter for SPN 102/FMI 18	0
ASL003: EGR Mass Flow Rate	1.0000
ASL007: Driving Cycle Counter	1683
ASL007: Ignition Cycle Counter	1239

*** (enumeration)**

AS028: EU6: critical emission failure	No inducement
AS028: EU6: dosing system	No inducement
AS028: EU6: regaend quality	No inducement
AS118: Fan Status	Fan off

AS119: DPF fault reaction	off/ disabled/ false
AS119: DPF protection	off/ disabled/ false
AS119: DPF safe mode	off/ disabled/ false
AS119: EGR fault reaction	off/ disabled/ false
AS119: EU6: empty tank	No inducement
AS119: ITV (reserved in MCM2)	off/ disabled/ false
AS119: Limit Urea Dosing Fault Reaction	off/ disabled/ false
AS119: MLIT Fault Reaction	off/ disabled/ false
AS119: Override SCR efficiency to 0%	off/ disabled/ false
AS119: SCR Fault Reaction	off/ disabled/ false
AS119: Torque Limiter	off/ disabled/ false
AS119: VNT fault reaction	off/ disabled/ false
AS119: Vehicle Speed Inhibit Request Types	NoReq
AS119: derate request types	NoReq
AS119: shutdown requests	No Req
AS120: Rail pressure state	RPG_OPEN_LOOP
AS122: Fuel Metering Unit Stick Diagnosis State	RPG_DIA_FMU_ABORTED
AS123: Fuel Metering Unit Diagnosis Error State	undefined
ASL004: Active Governor Type	Idle Speed Governor
ASL004: Engine State	Engine Stop
ASL007: SRA1 Status Code	Signal not available
ASL007: SRA3 Status Code	OK
DS001: CEL Lamp status	off/ disabled/ false
DS001: KW/NW validity signal	off/ disabled/ false
DS001: MIL Lamp status	off/ disabled/ false
DS015: Fuel Mass Engine Limit = afr_temp_lim	off/ disabled/ false
DS015: Fuel Mass Engine Limit = altitude_lim	off/ disabled/ false
DS015: Fuel Mass Engine Limit = max_lim	off/ disabled/ false
DS015: Fuel Mass Engine Limit = t_cha_air_lim	off/ disabled/ false
DS016: Fuel Mass Engine Limit = n_grad_lim	off/ disabled/ false
DS016: Fuel Mass Engine Limit = t_doc_lim	off/ disabled/ false
DS016: Fuel Mass Engine Limit = t_tco_lim	off/ disabled/ false
DS016: Fuel Mass Engine Limit = t_tti_lim	off/ disabled/ false
DS017: Fuel Mass Engine Limit = fis_lim in ccf_atc	off/ disabled/ false
DS017: Fuel Mass Engine Limit = min_lim	off/ disabled/ false
DS017: Fuel Mass Engine Limit = p_cha_air_lim	off/ disabled/ false
DS017: Fuel Mass Engine Limit = tc_speed_lim	off/ disabled/ false
DS018: Fuel Mass Engine Limit = fm_max_spi_lh	off/ disabled/ false
DS018: Fuel Mass Engine Limit = wg_tcat_lim	off/ disabled/ false
DS019: Torque limiter status	SNV
DS019: Vehicle Check Status	true
DS024: FIS_READ_FM_DEV_MC_B	not active
DS024: ISC_GET_GOV_ACTIVE_B	not active
DS024: ISC_GET_MONITORING_COND_B	not active
DSL001: CAN status (high line)	signal not available
DSL001: CAN status (low line)	signal not available
DSL001: Decrompression Valve	signal not available
DSL001: Engine Brake	off/ disabled/ false
DSL001: Engine Exhaust Flap	signal not available
DSL001: Reserved for Status HC Doser Line	signal not available
DSL001: Status of Fuel Cutoff Valve in Doser	

	off/ disabled/ false
DSL001: Stop Lamp / SEL	off/ disabled/ false
DSL001: Warning Buzzer	off/ disabled/ false
DSL002: CPC2 (CAN) Ignition Status	on/ enabled/ true
DSL002: CPC2 (CAN) Starter Signal Status	off/ disabled/ false
DSL002: Engine Protection	off/ disabled/ false
DSL002: MCM (wired) Ignition Status	on/ enabled/ true
DSL002: MCM (wired) Starter Signal Status	off/ disabled/ false
DSL002: Maximum Load Mode	off/ disabled/ false
DSL002: Maximum Speed Limitation Mode	off/ disabled/ false
DSL002: Smoke Limiter	on/ enabled/ true
DSL002: Starter Lock MCM	off/ disabled/ false
DSL002: Starter Output MCM	off/ disabled/ false
DSL002: Starting Tip Switch (engine)	off/ disabled/ false
DSL002: Stop Tip Switch (engine)	off/ disabled/ false
DSL003: Status HSW1 (Pin 41)	on/ enabled/ true
DSL003: Status HSW2 (Pin 39)	on/ enabled/ true
DSL003: Status PWM10 (Pin 35)	on/ enabled/ true
DSL003: Status PWM11 (Pin 37)	off/ disabled/ false
DSL003: Status PWM12 (Pin 65)	off/ disabled/ false
DSL003: Status PWM13 (Pin 66)	off/ disabled/ false
DSL003: Status PWM1 (Pin 61)	off/ disabled/ false
DSL003: Status PWM2 (Pin 63)	off/ disabled/ false
DSL003: Status PWM3 (Pin 92)	off/ disabled/ false
DSL003: Status PWM4 (Pin 94)	off/ disabled/ false
DSL003: Status PWM5 (Pin 31)	off/ disabled/ false
DSL003: Status PWM6 (Pin 33)	off/ disabled/ false
DSL003: Status PWM7 (Pin 32)	off/ disabled/ false
DSL003: Status PWM8 (Pin 34)	off/ disabled/ false
DSL003: Status PWM9 (Pin 36)	off/ disabled/ false

°

AS139: Fuel injection timing	0.00 °
AS148: read actual VCP position	0.00 °
AS149: read limited VCP position	0.00 °
ASL002: Main Injection Start (Average)	0.00 °

°CRK

AS163: Timing difference between Camshaft and Crankshaft	0.0 °CRK
AS164: Maximum timing difference between Camshaft and Crankshaft	0.0 °CRK

bar-abs

AS098: desired rail pressure	0.0 bar-abs
AS099: rail pressure deviation	-5 bar-abs
ASL001: Rail Pressure	5.4 bar-abs

kg/sec

ASL003: Engine Inlet Air Mass Flow Rate	0.0000 kg/sec

km/day

AS160: Average mileage per day	215.1 km/day

mA

AS100: Quantity Control Valve Current	4.0 mA
AS121: Quantity Control Valve Desired Current	0 mA
AS167: pos / neg measureable current from EGR valve	0 mA

mg/st

AS086: Requested Fuel Mass	16.36 mg/st
AS087: Actual Fuel Mass	0.00 mg/st

ratio

ASL003: Commanded EGR Ratio	0.00000 ratio

starts/day

AS159: Average Counts of engine start for days of operation	0.0 starts/day

ACM21T - Aftertreatment Control Module 2.1

Angular Speed

AS001: Engine Speed	0 rpm
AS143: ADS Pump Speed	0 rpm

Current

AS054: ECU Current	43 A

Distance

AS058: Dist. since the end of last regeneration	841.3 miles
AS059: DPF distance correction value	0.0 miles

Mass

AS060: Consumed fuel mass since the end of last regeneration	965.2 pound
AS061: DPF fuel correction value	0 pound
AS087: Accumulated DEF Consumption	2490.260 pound

Mass Flow

AS028: Fuel mass flow rate	0 kg/h
AS030: Exgas mass flow rate	0 kg/h
AS031: NOx mass flow rate	0.0000 kg/h
AS071: Injection rate actual	0 g/sec
AS073: PM mass flow rate	0.000000 kg/h
AS080: ADS DEF Quantity Request	0.0 g/h
AS085: Actual DEF Dosing Quantity	0.0 g/h
AS086: Requested DEF Dosing Quantity	0.0 g/h
AS160: Real Time ADS DEF Dosed Quantity (g/hr)	0.0 g/h
AS171: Actual Injection Rate	0 g/sec
AS184: Real Time ADS DEF Dosed Quantity 2 (g/hr)	0.0 g/h

Percentage

AS013: Actual Torque	0 %
AS024: DEF Tank Level	86.410 %
AS025: DEF Tank Level -raw value	86.250 %
AS026: Air before Compressor Humidity	0.000 %
AS044: Fuel tank level	0 %
AS104: ADS Doser PWM	0.000 %
AS170: DEF Tank Level 2	86 %
AS178: Accumlative DEF Consumption (L)	0 %

AS179: Regen inhibit caused by SCR doser	0 %
AS183: ADS DEF Pump PWM	5.00 %
AS187: UQS DEF Concentration	20.0 %
AS188: relative current of Soot Sensor	327.67 %
AS191: Soot Sensor PWM control	Not in Use/Not defined %

Power

AS126: DOC Heat Generation	0 BHP
AS127: DPF Heat Generation	0 BHP
AS129: SCR Heat Generation	0 BHP

Pressure

AS003: Ambient Air Pressure	14.87 psi
AS005: DOC Inlet Pressure	0.005 psi
AS006: DPF Outlet Pressure	0.000 psi
AS014: DEF Pressure	14.499 psi
AS015: DEF Pressure raw value	14.504 psi
AS092: Avg. DEF Dosing Pressure	0.000 psi
AS110: ADS DEF Pressure 2	14.50 psi
AS169: ADS DEF Pressure 1	14.49 psi

Speed

AS077: ACM Vehicle speed	0.0 mph

Temperature

AS002: Coolant Temperature	68.00 °F
AS007: DOC Inlet Temperature	77 °F
AS008: DOC Outlet Temperature	77 °F
AS009: DPF Outlet Temperature	77 °F
AS010: Air before Compressor Temperature	32.00 °F
AS018: SCR Inlet Temperature	77 °F
AS019: SCR Outlet Temperature	77 °F
AS020: DOCB temperature out	-40.00 °F
AS022: DEF tank Temperature	64 °F
AS023: ECU temperature sensor	71 °F
AS053: Ambient Air Temperature	77.00 °F
AS075: NOx out temperature sensor	32 °F
AS076: NOx raw temperature sensor	32 °F
AS113: Nox raw ceramic temperature	32.00 °F
AS116: Nox out ceramic temperature	32.00 °F
AS120: DPF Target Temperature	797 °F
AS121: Estimated DOC Outlet Temperature	77 °F
AS122: DOC Out Model Delay	77 °F
AS124: DOC Out Model Delay - Non fueling	77 °F
AS125: DPF Out Model Delay	77 °F
AS128: SCR Out Model Delay	77 °F
AS142: ADS DEF temperature	392 °F
AS168: Coolant Temperature - Filtered	68 °F
AS190: measured temp. at Soot Sensor	1875 °F
AS194: Soot Sensor tempearature initial value	1875 °F

Time

AS062: Time since the end of last regeneration	1823 min
AS063: DPF time correction value	1433 min
AS066: Avg. of Zone0 duration of last N cycles-based on dist. trigger	0 min
AS067: Avg. of Zone0 duration of last N cycles-based on fuel trigger	0 min
AS068: Avg. of Zone0 duration of last N cycles-based on time trigger	2710 min
AS117: Continues Mi counter	0 min
AS118: comulative continues Mi counter	0 min
AS119: Regeneration Time	0 min
AS123: Time since the end of last regeneration 2	1823 min
AS130: multiple hour period counter	0 s
AS133: DEF heating duration in on-going multiple hour period	0 s
AS134: DEF heating duration in last completed multiple hour period	0 s
AS135: DEF heating duration in life time	45056 s
AS159: Remaning Time for HIR	0 min

Voltage

AS004: Battery Voltage	12 V
AS093: DEF Tank Temperature Sensor Voltage	0.619 V
AS094: DEF Tank Level Sensor Voltage	2.285 V
AS095: SCR Inlet Temperature Sensor Voltage	0.537 V
AS096: SCR Oulet Temperature Sensor Voltage	0.537 V
AS097: DEF Temperature Sensor Voltage	3.000 V
AS098: DEF Pressure Sensor Voltage	0.469 V
AS146: oxi-catylyst 1 temp raw	0.537 V
AS147: oxi-catylyst 2 temp raw	0.537 V
AS148: post dpf temp raw	0.537 V
AS149: analog pressure pre dpf raw	0.503 V
AS150: analog pressure post dpf raw	0.464 V
AS151: raw ambient air temperature from sensor	3.000 V
AS152: oxi-catalyst 2 temp raw (second floor)	3.000 V
AS192: Soot Sensor supply voltage	Signal not available V

Volume

AS043: Fuel tank volume	1731.25 gal
AS153: DEF Tank Volume	12.9 gal

*

AS011: DPF success counter based on soot	15
AS029: Dosing Correction Factor	1.000
AS032: NOx out sensor lambda lin	-200
AS033: NOx out sensor lambda	-200
AS056: Number of Aborted regeneration counter	18
AS057: DPF condition success counter	51
AS065: Actual DPF zone	0
AS069: EOM Engine state	1
AS070: Engine operating point state	0
AS074: Success counter based on Autotime	36
AS078: Counter for the last low temperature regeneration	1

AS079: ADS priming request	0
AS081: Error detection KM counter Case1 MLIT for JP09	0
AS082: Error recovery KM counter Case1 MLIT for JP09	0
AS083: Error detection KM counter Case3 MLIT for JP09	0
AS084: Error recovery KM counter Case3 MLIT for JP09	0
AS088: UDC Dosing state	0
AS101: Nox conversion efficiency	0.0255
AS102: No of sporadic defect sensor 1	0
AS103: No of sporadic defect sensor 2	0
AS105: NOx Sensor Dewpoint enabled Inlet	0
AS106: NOx Sensor Dewpoint enabled Outlet	0
AS109: Ash Filter Full Volume	0.95
AS112: lambda raw concentration	17
AS115: lambda out concentration	50
AS136: low DEF temperature event count in on-going multiple hour period	0
AS137: low DEF temperature event count in last complete multiple hour period	0
AS138: low DEF temperature event count in life time	0
AS139: high DEF temperature event count in on-going multiple hour period	0
AS140: high DEF temperature event count in last complete multiple hour period	0
AS141: high DEF temperature event count in life time	1308
AS161: Normalized Backpressure Factor	0.000
AS172: DPF Zone Actual Time	0
AS173: DPF Zone One Actual Distance	0
AS174: DPF Actual Fuel Based on Zone	0
AS175: Actual Delta P Based DPF Zone	0
AS186: UQS DEF Type	14
AS193: CAN Soot Sensor factor	6.55350
AS195: Soot Sensor cid	250
AS196: Soot Sensor swid	123
AS198: ucm_sc_log_rate	4294967295
AS199: ucm_sc_log_avg_consum	4294967295
AS200: scr_mon_rto_nox_raw_rat_chk	0.00000

*** (enumeration)**

AS040: EU6: Failure Monitoring System	No inducement
AS040: EU6: Impeded EGR Valve	No inducement
AS040: EU6: Incorrect Reagent Consumption	No inducement
AS040: EU6: Incorrect reagent quality	No inducement
AS040: EU6: Interruption of reagent dosing	No inducement
AS040: EU6: Low reagent level	No inducement
AS041: KM Parity	On
AS042: Vehicle motion	Off
AS064: DPF Regen State	No regeneration activity
AS100: DPF fault reaction	off/ disabled/ false
AS100: DPF protection	off/ disabled/ false
AS100: DPF safe mode	off/ disabled/ false
AS100: EGR fault reaction	off/ disabled/ false
AS100: ITV (reserved in MCM2)	off/ disabled/ false

AS100: Limit DEF Dosing Fault Reaction	off/ disabled/ false
AS100: MLIT Fault Reaction	off/ disabled/ false
AS100: Override SCR efficiency to 0%	off/ disabled/ false
AS100: SCR Fault Reaction	off/ disabled/ false
AS100: Torque Limiter Fault Reaction	off/ disabled/ false
AS100: VNT fault reaction	off/ disabled/ false
AS100: Vehicle Speed Inhibit Request Types	NoReq
AS100: derate request types	NoReq
AS100: shutdown requests	No Req
AS163: DPF Simulated Soot Based on Zone	no zone request
AS164: DPF Measured Soot Based on Zone	no zone request
AS165: DPF Zone Ash Trigger	no zone request
AS166: DPF Regen Active -Higher Zone Forced	no zone request
AS167: DPF Function Failure Request for Zone 2	no zone request
AS176: NOX Fault State	No Fault
AS177: ADS is Thawed	Regeneration authorized by Adblue dosing system
AS180: DPF Request Disable Shutdown	No request for override is received
AS185: ADS DEF Pump Priming Request	Off
DS001: Dosing enable APS	on/ enabled/ true
DS001: Engine run	off/ disabled/ false
DS001: Ignition	on/ enabled/ true
DS002: ADS ready for Dosing	off/ disabled/ false
DS002: CAN enable	on/ enabled/ true
DS002: Components enable	on/ enabled/ true
DS002: Enable ADS	off/ disabled/ false
DS003: Dosing enable UPS	off/ disabled/ false
DS003: Enable DEF pump	off/ disabled/ false
DS003: HC flag	off/ disabled/ false
DS003: Pressure dosing enable UPS	on/ enabled/ true
DS004: Line Heater 1	off/ disabled/ false
DS004: Line Heater 2	off/ disabled/ false
DS004: Line Heater 3	off/ disabled/ false
DS004: Line Heater 4	off/ disabled/ false
DS005: Coolant Valve	off/ disabled/ false
DS005: DEF Purge Performed b	off/ disabled/ false
DS005: Line Heater 5	off/ disabled/ false
DS006: FMM CEL Status	off/ disabled/ false
DS006: FMM MIL Status	off/ disabled/ false
DS006: FMM SEL Status	off/ disabled/ false
DS006: Warning Buzzer Ctrl Status	off/ disabled/ false
DS007: NOx raw lambda sensor	on/ enabled/ true
DS007: NOx raw sensor signal	on/ enabled/ true
DS007: NOx raw sensor supply	on/ enabled/ true
DS007: NOx raw sensor temperature	on/ enabled/ true
DS008: NOx raw failure signal not available	off/ disabled/ false
DS008: NOx raw failure signal range high	off/ disabled/ false
DS008: NOx raw failure signal range low	off/ disabled/ false
DS008: Status raw of dsr routine	off/ disabled/ false
DS009: NOx out lambda sensor	on/ enabled/ true

DS009: NOx out sensor signal	on/ enabled/ true
DS009: NOx out sensor supply	on/ enabled/ true
DS009: NOx out sensor temperature	on/ enabled/ true
DS010: NOx out failure signal not available	off/ disabled/ false
DS010: NOx out failure signal range high	off/ disabled/ false
DS010: NOx out failure signal range low	off/ disabled/ false
DS010: Status out of dsr routine	off/ disabled/ false
DS011: ADS DEF Pump Enable	off/ disabled/ false
DS011: ADS dosing valve state	off/ disabled/ false
DS011: Over the Road Regen Disable status	off/ disabled/ false
DS011: heater state - dosing unit	off/ disabled/ false
DS012: Diffuser Heater	off/ disabled/ false
DS012: Soot Sensor active status	off/ disabled/ false
DS012: Soot Sensor regen status	off/ disabled/ false
DS012: system having a Pre DOC	off/ disabled/ false
DS013: Soot Sensor Data - Measurement active	on/ enabled/ true
DS013: Soot Sensor Data - Prot. tube monitoring release	on/ enabled/ true
DS013: Soot Sensor Data - Regeneration active	on/ enabled/ true
DS014: Defect status of Soot Sensor faults except IDE short circuit	off/ disabled/ false
DS014: End of Soot Sensor shutdown in case of cooled down sensor	on/ enabled/ true
DS014: Soot Sensor Data - regeneration cycle finished	off/ disabled/ false

µA

AS189: absolute current of Soot Sensor	255.996 µA
AS201: Soot Sensor Electrode Current	255.996 µA

g

AS131: DEF mass in on-going multiple hour period	0 g
AS132: DEF mass in last completed multiple hour period	0 g
AS144: soot load	2.38 g
AS145: simulated soot load mass in actual filtering cycle	13.05 g

g/h*hp

AS108: Brake specific NOx out value displayed in hp	0.00 g/h*hp

g/h*kw

AS107: Brake specific NOx out value displayed in kw	0.00 g/h*kw

mA

AS027: DEF Pump Current	1751 mA

MJ

AS197: ats_dia_dp_enth_int_val	0.00 MJ

ppm

AS034: SCR NOx raw emission correction	0 ppm
AS035: SCR Outlet NOx Sensor	1650 ppm
AS036: SCR Inlet NOx Sensor	1650 ppm
AS072: SCR NOx target emission	0 ppm
AS111: NOx raw concentration	0 ppm
AS114: NOx out concentration	0 ppm

CPC04T

PGR001 Communication

CC1 Source Address SAE J1939	23
CC2 Source Address SAE J1939	33
CC3 Source Address SAE J1939	49
CM1 DPF Source Addr SAE J1939	33
CM1 Fan Source Addr1 SAE J1939	25
CM1 Fan Source Addr2 SAE J1939	49
EBC1 Source Address SAE J1939	33
J1939 TSC1 RPM Freeze Enable	disable
J1939 TSC1 Source Address4	59
PTO Source Address SAE J1939	23
TSC1 Source Address SAE J1939	231
J1939 PropB04 Source Address	254
J1939 Tsc1 Eng Var Rate Stat	use cal -J1939 Tsc1 Tout Sel- for timeout detection
Selection of TSC1 check	Check both, SPN 4206 and 4207
J1939 ICUC DM1 Rx Timeout	100
J1939 PROP_B02 VRDU_E3 Rx Timeout	10

PGR002 Vehicle Parameters I

Transmission Type	Allison, Eaton Ultrashift/Ultrashift ASW, Autoshift, ZF ASTronic, AGS2 without ETC2
Enable Creep Mode (Detroit Transmission)	enabled
Enable HillHolder Mode (Detroit Transmission)	enabled
clutch overload warning threshold	3
clutch overload pre warning threshold	1
IPM enable	disable

PGR003 Common Limiters

Idle Configuration for Limiter Inputs	disabled
Eng Speed Limit While Veh Stop	3000.0 rpm
Max Adjusted Idle Speed	600.0 rpm
Max Engine Speed	3000.0 rpm
Max Road Speed	71.0839 mph
Min Engine Speed	592.0 rpm
Ramp Rate Adjusted Idle Spd	100.0 (1/min)/s
Single Step Adjusted Idle Spd	16.0 rpm
Trans Torque Limit Enable	enable
Sel GreenHouse Gas Emission	disable
GreenHouse Gas Emission Max Vspeed	65.2440 mph
Idle Gov Limit Configuration	on Detroit Transmission only
Low vehicle speed governor enable	disable

PGR005 Limiters LIM0 and LIM1

Limiter0 Max Eng Speed Enabled	4000.0 rpm
Limiter0 Max Eng Trq Enabled	3687.81 ft-lb
Limiter0 Max Road Spd Enabled	74.0014 mph
Limiter0 Max Vehicle Accel	10.0000 m/s^2
Limiter0 Min Eng Speed Enabled	500.0 rpm
Limiter1 Max Eng Speed Enabled	4000.0 rpm

Limiter1 Max Eng Trq Enabled	3687.81 ft-lb
Limiter1 Max Road Spd Enabled	94.4484 mph
Limiter1 Max Vehicle Accel	10.0000 m/s^2
Limiter1 Min Eng Speed Enabled	500.0 rpm

PGR006 Limiters AC and LIM2

Fast Idle Spd Air Cond Input	600.0 rpm
Mode of AC Status Input	disabled

PGR007 PTO Control on PTO and CC pin

Config PTO Speed Control	Cab/Remote PTO enabled if neutral and park brake
Max PTO Spd Resume Accel Sw	1400.0 rpm
Max Road Speed in PTO Mode	0.0000 mph
Min PTO Spd Set Coast Sw	600.0 rpm
No of Speeds via Remote PTO	1
PTO Dropout on Clutch Enabled	No PTO drop out with clutch pedal
PTO Dropout Serv Brk Prk Brk	No PTO drop out on service brake or park brake activation
PTO Ramp Rate	200.0 (1/min)/s
PTO Remote Throt Override Mode	disable
Remote PTO Spd Selection Mode	1 pulsed input (RemPTO)
Resume Accel Sw PTO Set Spd	1200.0 rpm
RPM Increment	25.0 rpm
Set Coast Switch PTO Set Speed	900.0 rpm
Spd 1 via Remote PTO	950.0 rpm
Spd 2 via Remote PTO	1250.0 rpm
Spd 3 via Remote PTO	1850.0 rpm
Throttle Override Max Eng Spd	1600.0 rpm
PTO Accel Pedal Override Mode	always On
PTO Cab Switches Mode	always On

PGR008 Vehicle Speed Sensor

Anti Tamper	disabled
Axle Ratio	3.4170
Number of Output Shaft Teeth	16
Second Highest Gear Ratio	0.7402
Tire Revs per Unit Distance	491 1/mile
Top Gear Ratio	0.6396
Two Spd Axle Second Axle Ratio	1.0000
Vehicle Speed Sensor	J1939 ETC1
vss absolute diagnostic limit	99.9145 mph
vss driving diagnostic limit	99.9145 mph
Wheel Revs Front Axle Nr	504 1/mile
Vspeed Eval Split Gear PTO	Vspeed evaluation

PGR009 Analog Outputs

1 9 FPO_02 Engine Speed Display N Mot	1604 counts/rev
3 05 AO_01 Selection	disabled
3 06 AO_02 Selection	disabled

PGR010 Engine Brake

Cruise Control Enable Eng Brk	enable automatic engine brake operation with cruise control

Cruise RSL Eng Brk Mode Select	vehicle overspeed based
Eng Brk Drvline Clsd Min Spd	800.0 rpm
Engine Brake Configuration	Jake Compression Brake or Decompression Valve + Brake Gate
J1939 Steps Engine Brake	low/medium/high steps
Min Eng Spd for Engine Brakes	1100.0 rpm
Min Road Spd Eng Brk Operation	0.0000 mph
Road Spd Limit Max Stage Num	high
Service Brk Enable Eng Brakes	disable
Low Eng Brk Min Cruise RSL Spd	0.7476 mph
Low Eng Brk Max Cruise RSL Spd	1.2427 mph
Med Eng Brk Min Cruise RSL Spd	1.2427 mph
Med Eng Brk Max Cruise RSL Spd	3.2331 mph
Hi Eng Brk Min Cruise RSL Spd	2.4855 mph
Hi Eng Brk Max Cruise RSL Spd	4.9710 mph
Eng Brk Stage On Service Brake	high
Eng Brake Activation Del Time	0.0 s
Soft Cruise Alt Eng Brk Thres	disabled
SCruise Eng Ret1 Off Thres Spd	1.24 mph
SCruise Eng Ret1 On Thres Spd	1.24 mph
SCruise Eng Ret2 Off Thres Spd	1.24 mph
SCruise Eng Ret2 On Thres Spd	1.24 mph
SCruise Eng Ret3 Off Thres Spd	1.24 mph
SCruise Eng Ret3 On Thres Spd	1.24 mph

PGR011 Accelerator Pedal

Accel Pedal Type	Williams Dual-Channel Analog Pedal
kick down off percent	0.000 %
kick down on percent	0.000 %
Throttle Inhibit Selection	Cab and Remote Throttle

PGR012 Optimized Idle

OI Alternate Battery Run Time	0 s
OI Continuous Batt Time Enable	disabled
OI Extended Mode Disable	enable
OI Lower Limit Continuous Run	24.80 °F
OI Target Engine RPM ae 0	1000.0 rpm
OI Target Engine RPM ae 1	1000.0 rpm
OI Target Engine RPM ae 2	1000.0 rpm
OI Target Engine RPM ae 3	1000.0 rpm
OI Target Engine RPM ae 4	1000.0 rpm
OI Thermostat Max Time	0 s
OI Upper Limit Continuous Run	89.60 °F
OI Variable Volt Thresh Enable	disabled
Optimized Idle Enable	disabled
OI Enable Therm Ext Mode	Normal OI Thermostat Mode

PGR013 Inputs

1 01 DI Selection	disable
1 02 DI Selection	disable
1 10 DI Selection	disable
1 15 DI Selection	disable

1 17 DI Selection	throttle inhibit
2 08 DI Selection	disable
2 09 DI Selection	disable
2 13 DI Selection	fan override switch
2 14 DI Selection	disable
2 15 DI Selection	disable
3 01 AI Selection	no sensor
3 18 DI Selection	disable
4 08 DI Selection	disable
4 13 DI Selection	disable
4 17 DI Selection	disable
4 18 DI Selection	disable
2nd Axle Speed Switch Config	hardwired
Cab PTO Switch Config	Ccvs2
CC ON OFF Switch Config	Ccvs2
CC Pause Switch Config	hardwired
CC Set Cst Res Accel Sw Config	Ccvs2
Clutch Switch Config	no clutch switch
Engine Brake Switch Config	EBC1 steps
Evobus Retarder Lever Enable	disabled
Park Brake Switch Config	Ccvs2
Service Brake Switch Config	Ccvs2
Stop Eng Override Sw Config	Ccvs2
Trans Neutral Input Config	ETC2 (SPN 523 and 524) or PTCAN (TCM)
Evobus Cc Lever Enable	disable
1 01 Diflex01 Fault Detect Enable	no information to FCM
1 02 Diflex02 Fault Detect Enable	no information to FCM
1 10 Diflex20 Fault Detect Enable	no information to FCM
1 11 Diflex08 Fault Detect Enable	no information to FCM
1 12 Diflex03 Fault Detect Enable	no information to FCM
1 14 Diflex04 Fault Detect Enable	no information to FCM
1 15 Diflex05 Fault Detect Enable	no information to FCM
1 16 Diflex06 Fault Detect Enable	no information to FCM
1 17 Diflex07 Fault Detect Enable	no information to FCM
2 07 Diflex15 Fault Detect Enable	no information to FCM
2 08 Diflex16 Fault Detect Enable	no information to FCM
2 09 Diflex09 Fault Detect Enable	no information to FCM
2 11 Diflex10 Fault Detect Enable	no information to FCM
2 12 Diflex11 Fault Detect Enable	no information to FCM
2 13 Diflex12 Fault Detect Enable	no information to FCM
2 14 Diflex13 Fault Detect Enable	no information to FCM
2 15 Diflex14 Fault Detect Enable	no information to FCM
3 18 Diflex22 Fault Detect Enable	no information to FCM
4 01 Diflex27 Fault Detect Enable	no information to FCM
4 02 Diflex28 Fault Detect Enable	no information to FCM
4 03 Diflex26 Fault Detect Enable	no information to FCM
4 04 Diflex24 Fault Detect Enable	no information to FCM
4 05 Diflex25 Fault Detect Enable	no information to FCM
4 08 Diflex23 Fault Detect Enable	no information to FCM
4 13 Diflex19 Fault Detect Enable	no information to FCM
4 16 Diflex17 Fault Detect Enable	

	no information to FCM
4 17 Diflex21 Fault Detect Enable	no information to FCM
4 18 Diflex18 Fault Detect Enable	no information to FCM
3 04 AI_02 Selection	Remote throttle sensor
4 14 AI_03 Selection	Dual channel analog throttle, channel 2 signal
2 11 DI Selection	LIM1
1 11 DI Selection	PTO part 1 (adjustable via -Remote PTO Spd Selection Mode-)

PGR015 Cruise Control

Cruise Power	high power only
Cruise V Speed may exceed RSL	disable
Disable CC On Drive Train Open	disabled
Enable Cruise Auto Resume	disable
Max Cruise Set Speed	73.9991 mph
Min Cruise Set Speed low	19.88 mph
pause CC on VDC1	ROP,YC Brake Control
Min Cruise Set Speed high	19.88 mph
Set-Speed Increment Mode	mph
Norm Hyst Vspeed	2.4855 mph
Min Hyst Vspeed	1.2427 mph
Max Hyst Vspeed	9.3206 mph
CC Regular Increment Mode	Increment 1,0 (km/h, mph)
Soft Cruise Manual Activation	not active
Min Hyst High Vspeed	2.4855 mph
Min Hyst Code	occasionally
CC Hyst Variant	Variant C

PGR017 Idle and PTO Shutdown

Enable Idle PTO Shtdn Override	vehicle speed, throttle pedal
Enable Idle Shutdown	disable
Enable PTO Shutdown	disable
Hi Amb Air Override Temp	89.60 °F
Idle Shutdown Auto Override	no automatic override performed
Idle Shutdown Time	300 s
Lo Amb Air Override Temp	24.80 °F
Max Engine Load PTO Shutdown	73.76 ft-lb
Min Coolant Temp	50.00 °F
PTO Shutdown Time	300 s
Restart Enable	disable restart in the same ignition cycle
Lo Amb Air Temp Idle Time	0 s
Hi Amb Air Temp Idle Time	0 s
Green House Gas Emission Lo Amb Temp	24.80 °F
Green House Gas Emission Hi Amb Temp	89.60 °F
Green House Gas Emission Max Dst	4072156.1 miles

PGR018 Engine Protection Shutdown

Cool Level Eng Protect Shtdn	engine shutdown
Coolant Temp Eng Protect Shtdn	engine shutdown
Oil Press Eng Protect Shtdn	engine shutdown
Water in Fuel Shutdown Enable	Warning and Derate

PGR019 Automatic Fan Activation

AC Fan Speed Active Pct	100.000 %
AC Fan Vehicle Speed Enable	disable
AC Fan Vehicle Speed Thresh	19.8839 mph
Air Condition Enable Auto Fan	disable
Eng Brake Enable Auto Fan	disable
Fan AC Hold Time	180.00 s
Fan Vehicle Speed Enable	disable
Fan Vehicle Speed Threshold	0.0000 mph
Hold Time Fan	10.00 s
J1939 Fan Request Enable	disable
PTO Enable Auto Fan Activation	disable
Ramp Fan	25.000 %/s
Trans Retarder Fan Percent	0.000 %

PGR020 Remote Accelerator Pedal

Remote Accelerator Enable	Remote AP disabled

PGR023 Limiters II

CDR mode	off
CDR Reset Frequency	off
FEI Conversion Factor	2.00 mph/mpg
FEI Max Vehicle Speed Reward	0.0000 mph
FEI Minimum Fuel Economy	7.00 mpg
FEI Use Trip Mileage	based on filtered fuel economy
Fuel Economy Incentive Enable	disabled
Gear Ratio for High Gear Power	0.020
Gear Ratio Gear Down Protect	0.010
Low Gear Trq Limiting Enable	active
Max CDR incentive for CC	0.0000 mph
PasSmart Enable	disabled
Progressive Shift Enable	disabled
PS High Gear On Vehicle Spd	44.9863 mph
PS High Gear RPM Limit	1800.0 rpm
PS Low Gear 1 Max RPM Limit	1600.0 rpm
PS Low Gear 1 Max Vehicle Spd	17.8353 mph
PS Low Gear 1 RPM Limit	1600.0 rpm
PS Low Gear 2 Max RPM Limit	1700.0 rpm
PS Low Gear 2 Max Vehicle Spd	44.9863 mph
PS Low Gear 2 RPM Limit	1700.0 rpm
PS Pass Speed Duration	0 min
PS Pass Speed Increment	0.0000 mph
PS Pass Speed Interval	8 h
PS Veh Speed Hysteresis	3.1069 mph
Top Gear Max CDR incentive	0.0000 mph
Torque Factor for Cruise Power	1.000
Torque Factor Gear Dwn Protect	1.000
Torque Factor High Gear Power	1.000
absolute Max Vspeed	94.4484 mph
Max CDR Incentive Idle Time	0.0000 mph

PGR027 Fleet Management

Fleet Management Enable	enable
FM Alert Update Enable	enable
FM Daily Usage Enable	enable
FM Fuel Density	0.835 kg/l
FM Incident Update Enable	enable
FM Monthly Trip Enable	enable
FM Serv Interval Update Enable	enable
FM Total Data Adjust Selection	disabled

PGR031 Vehicle Parameters III

Ambient Air Temp Sensor Enable	PTCAN

PGR032 Coolant Level Sensor

Cool Level Sensor Input Enable	dual level float sensor (FTL), fix threshold evaluation

PGR035 Digital Outputs

1 05 DO Selection	DPF Lamp
1 13 DO Selection	MIL lamp
2 10 DO Selection	check engine lamp yellow
3 07 DO Selection	disabled
3 08 DO Selection	disabled
3 09 DO Selection	disabled
3 10 DO Selection	DEF Low Lamp
3 12 DO Selection	disabled
3 16 DO Selection	stop engine lamp red
3 17 DO Selection	enable starter lockout
4 06 DO Selection	disabled
4 07 DO Selection	disabled
4 09 DO Selection	disabled
4 10 DO Selection	disabled
1 05 DO Fault Detection	Fault Detection Off
1 13 DO Fault Detection	Fault Detection Off
2 10 DO Fault Detection	Fault Detection Off
3 07 DO Fault Detection	Fault Detection Off
3 08 DO Fault Detection	Fault Detection Off
3 09 DO Fault Detection	Fault Detection Off
3 10 DO Fault Detection	Fault Detection Off
3 12 DO Fault Detection	Fault Detection Off
3 16 DO Fault Detection	Fault Detection Off
3 17 DO Fault Detection	Diag
4 06 DO Fault Detection	Fault Detection Off
4 07 DO Fault Detection	Fault Detection Off
4 09 DO Fault Detection	Diag
4 10 DO Fault Detection	Diag

PGR037 Fault Management

Engine Hour Sync Fault Enable	disabled

PGR039 Vehicle Mass

difference Total ratio	29.98 %

PGR042 Dss

DSS Restricted Mode Max Engine Speed	4000.0 rpm
DSS minimum engine speed	500.0 rpm
DSS Restricted Mode Max Vehicle Speed	94.4484 mph
DSS restricted mode maximum engine torque	3687.81 ft-lb
DSS full mode maximum engine torque	3687.81 ft-lb
DSS Restricted Mode Maximum Vehicle Acceleration	15.6250 m/s^2
DSS full mode maximum vehicle acceleration	15.6250 m/s^2
DSS Second Cabin Control Configuration	0
DSS Driving from Super Structure Configuration	0
DSS 2nd Cab Control Releas Opt Pbrake	1
DSS Cut Off Opt Brake Carrier Cab	1

PGR043 Acc

Adaptive Cruise Control Enable	disable
Manual Cruise Enable	enable

PGR046 Diesel Particulate Filter

DPF J1939 Inhibit Sw Enable	active
DPF J1939 Regen Sw Enable	active

PGR047 Ag

Max eCoast Vehicle Offset Speed	2.49 mph
Enable Dyno Mode (Detroit Transmission)	active
Enable eCoast (Detroit Transmission)	enable
Enable Performance Gear Sel Mode (Detroit Transm)	enable
Enable Manual Gear Sel Mode (Detroit Transmission)	enable
Max Forw Pos Start Gear	5 gear
Max Forw Shift Prog Start Gear	5 gear
cdi_p_Ag.TcPtoClutchRampGradSel_u8	Curve #1

PGR048 Ptconf

Transmission Automation Level	1
Mechanical Transmission Type	unsynchronized gearbox

PGR054 Predictive Cruise Control

PCC Eng Brake Mode	Overspeed with standard thresh.
PCC Lower Veh Spd Limit	-6.000 %
PCC RSL Mode	RSL limit only, PCC offset ignored
PCC Upper Veh Spd Limit	6.000
PCC Enable	disabled

PGR055 Transmission Retarder

Trans Ret Number of Stages	0
Trans Ret Ctrl Mode	Progr. 0, All
Trans Ret Min Eng Spd	700.0 rpm
Trans Ret Hysteresis Min Speed	50.0 rpm
Trans Ret Min Vspeed	4.9710 mph
Trans Ret 4 Min Ovs Vspeed	7.4565 mph
Trans Ret 4 Max Ovs Vspeed	7.4565 mph

Trans Ret 5 Min Ovs Vspeed	6.2137 mph
Trans Ret 5 Max Ovs Vspeed	8.6992 mph

PGR067 LIM III

En Itm Sel	disable

MCM21T

PGR001_PropValve

PWM6 Configuration	Not Parameterized
PWM14 Configuration	Fan1

PGR004_EngineConfig

Engine Serial Number	471934S0339152
Trans Limp Home Mode	Manual
Starter Type Control	Starter activated via Hardwire
Application Code	06N04C0334

PGR006_FanConfig

Fan Type	Single Speed Fan - 1 output
Dyn FAN Brake Enable	Disabled

PGR007_DPFConfig

DPF zone 5 Time Trigger	0 min
DPF zone 5 Dist Trigger	0.0 miles
DPF zone 5 Fuel Trigger	0 pound

PGR041_OBD

par_cal_id_parameter_set	0000003

ACM21T

PGR003_OBD

par_cal_id_parameter_set	0000026
par_ecu_id_vers	0

PGR005_DPF

Extended Idle Auto RPM Elevate	Enabled
Purge in Progress Lamp	on
SCR Air Valve Normally Open	no
DPF Zone turn on regen switch	2

Audit Trail

– CPC04T - Common Powertrain Controller 4 App_0410

Customer Parameters

1st Change Date	5/27/2016 5:11:23 PM Coordinated Universal Time
1st Change Tool ID	DE3447D7
1st Change Engine Hours	608 hr
2nd Change Date	11/30/2015 6:40:02 AM Coordinated Universal Time
2nd Change Tool ID	C7522763
2nd Change Engine Hours	0 hr
3rd Change Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
3rd Change Tool ID	FFFFFFFF
3rd Change Engine Hours	1193047 hr

Password Group

1st Change Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
1st Change Tool ID	FFFFFFFF
1st Change Engine Hours	1193047 hr
1st Change Category 1 Parameter Changed	yes
1st Change Category 2 Parameter Changed	yes
1st Change Category 3 Parameter Changed	yes
1st Change Category 4 Parameter Changed	yes
1st Change Category 5 Parameter Changed	yes
1st Change Category 6 Parameter Changed	yes
1st Change Category 7 Parameter Changed	yes
2nd Change Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
2nd Change Tool ID	FFFFFFFF
2nd Change Engine Hours	1193047 hr
2nd Change Category 1 Parameter Changed	yes
2nd Change Category 2 Parameter Changed	yes
2nd Change Category 3 Parameter Changed	yes
2nd Change Category 4 Parameter Changed	yes
2nd Change Category 5 Parameter Changed	yes
2nd Change Category 6 Parameter Changed	yes
2nd Change Category 7 Parameter Changed	yes
3rd Change Date	No Data Record/No Data Record/No Data Record No Data

	Record:No Data Record:No Data Record GMT
3rd Change Tool ID	FFFFFFFF
3rd Change Engine Hours	1193047 hr
3rd Change Category 1 Parameter Changed	yes
3rd Change Category 2 Parameter Changed	yes
3rd Change Category 3 Parameter Changed	yes
3rd Change Category 4 Parameter Changed	yes
3rd Change Category 5 Parameter Changed	yes
3rd Change Category 6 Parameter Changed	yes
3rd Change Category 7 Parameter Changed	yes

Ratings

1st Change Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
1st Change Tool ID	FFFFFFFF
1st Change Engine Hours	1193047 hr
1st Change Rating Changed	yes
2nd Change Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
2nd Change Tool ID	FFFFFFFF
2nd Change Engine Hours	1193047 hr
2nd Change Rating Changed	yes
3rd Change Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
3rd Change Tool ID	FFFFFFFF
3rd Change Engine Hours	1193047 hr
3rd Change Rating Changed	yes

Real Time Clock

1st Change Old Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
1st Change New Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
1st Change Tool ID	FFFFFFFF
1st Change Engine Hours	1193047 hr
2nd Change Old Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
2nd Change New Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
2nd Change Tool ID	FFFFFFFF
2nd Change Engine Hours	1193047 hr
3rd Change Old Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
3rd Change New Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
3rd Change Tool ID	FFFFFFFF
3rd Change Engine Hours	1193047 hr

Road Speed Parameters

1st Change Date	11/30/2015 6:40:02 AM Coordinated Universal Time
1st Change Tool ID	C7522763
1st Change Engine Hours	0 hr
1st Change Axle Ratio	yes
1st Change FEI Maximum Vehicle Speed Reward	yes
1st Change Maximum Road Speed	yes
1st Change Number of Output Shaft Teeth	no
1st Change Tire Revolutions per Unit Distance	yes
1st Change Top Gear Ratio	yes
1st Change Vehicle Speed Sensor Selection	yes
2nd Change Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
2nd Change Tool ID	FFFFFFFF
2nd Change Engine Hours	1193047 hr
2nd Change Axle Ratio	yes
2nd Change FEI Maximum Vehicle Speed Reward	yes
2nd Change Maximum Road Speed	yes
2nd Change Number of Output Shaft Teeth	yes
2nd Change Tire Revolutions per Unit Distance	yes
2nd Change Top Gear Ratio	yes
2nd Change Vehicle Speed Sensor Selection	yes
3rd Change Date	No Data Record/No Data Record/No Data Record No Data Record:No Data Record:No Data Record GMT
3rd Change Tool ID	FFFFFFFF
3rd Change Engine Hours	1193047 hr
3rd Change Axle Ratio	yes
3rd Change FEI Maximum Vehicle Speed Reward	yes
3rd Change Maximum Road Speed	yes
3rd Change Number of Output Shaft Teeth	yes
3rd Change Tire Revolutions per Unit Distance	yes
3rd Change Top Gear Ratio	yes
3rd Change Vehicle Speed Sensor Selection	yes

Common

CPC04T - Common Powertrain Controller 4

App_0410CANHS-1 on USB-Link

Device Configuration

Software Mode	Running in Application

Device Information

Software Version	R34_00_000A
Diagnostic Version	10
Shift Map Part Number	
ECU Serial Number	15.3100.00080
Hardware Part Number	A003 446 10 02 ZGS 005
Software Part Number	A017 448 66 02 ZGS 001
Software Date	7/9/2014 1:51:00 PM Coordinated Universal Time
Real Time Clock	3/9/2017 5:46:50 PM Coordinated Universal Time

Vehicle Identification

VIN	YE2XC81B8G3[redacted]
Engine Serial Number	471934S0339152
Odometer	62190.6 miles

MCM21T - Motor Control Module 2.1

mcm_0x06C1CANHS-1 on USB-Link

Device Configuration

Fuelmap Part Number	A029 448 96 35 ZGS 002
Fuel Map Description	R_47000_1SF134S003
Certification Number	471LA15a5_450/1650
Software Mode	Running in Application
Rating Code	A0294489635
Application Code	06N04C0334
Application Code Part Number	A0514471535_001

Device Information

Software Version	4.7.0.0
Diagnostic Version	193
ECU Serial Number	0037868717
Hardware Part Number	A001 446 28 35 ZGS 002
Software Part Number	A017 448 56 35 ZGS 001

OBD

Calibration ID	147001N110000003
Calibration Verification Number	735CC43C

Vehicle Identification

VIN	YE2XC81B8G3[redacted]
Engine Serial Number	471934S0339152
Engine Type	DD13

TCM03T - Transmission Control Module Allison

App_0500CANHS-1 on USB-Link

Device Configuration

Software Mode	Running in Application

Device Information

ECU Serial Number	BK0691A350520012
ECU Calibration Number	C15100106A73C
Software Version	W15BCD_PC_~~5J69~~~~~
Hardware Configuration Number	A63
Hardware Supplier	Allison

Vehicle Identification

Transmission Type	B500

ACM21T - Aftertreatment Control Module 2.1

acm_0x0221CANHS-1 on USB-Link

Device Configuration

Fuelmap Part Number	A016 448 18 54 ZGS 003
Certification Number	
Software Mode	Running in Application
Application Code	06N04C1247
Application Code Part Number	A0514471154_002

Device Information

Software Version	5.57.0.0
Diagnostic Version	33
ECU Serial Number	F47D4201
Hardware Part Number	A000 446 46 54 ZGS 003
Software Part Number	A010 448 69 54 ZGS 001

OBD

Calibration ID	25v0039490000026
Calibration Verification Number	18053C9A
NOX Engine Calibration ID	NOx-SW7010 ATI1
NOX Engine Calibration Verification Number	45C15E8A
NOX Tail Pipe Calibration ID	NOx-SW7010 ATO1
NOX Tail Pipe Calibration Verification Number	4AD47D93
PM Sensor Calibration ID	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
PM Sensor Calibration Verification Number	00000000

Vehicle Identification

VIN	YE2XC81B8G3[redacted]

Engine Totals

– MCM21T - Motor Control Module 2.1 mcm_0x06C1

Engine Totals

Engine Run Time Since DTC Cleared	64255 min
Engine Run Time While MIL Activated	0 min
Engine Run Time for AECD #1 Altitude Compensation, Timer #1	66987 s
Engine Run Time for AECD #1 Altitude Compensation, Timer #2	46249 s

– ACM21T - Aftertreatment Control Module 2.1 acm_0x0221

Engine Totals

Engine Run Time Since DTC Cleared	64255 min
Engine Run Time for AECD #2 ATD HC Clean up, Timer 1	7473 s
Engine Run Time for AECD #3 Cold DEF Tank, Timer 1	1.133228E+07 s
Engine Run Time for AECD #4 Cold Exhaust Gas, Timer 1	3124978 s

Log File Information

File Name	(YE2XC81B8G3[redacted]) 3-9-2017 1800 08.DrumrollLog
Location	C:\ProgramData\Detroit Diesel\Drumroll\Log Files\(YE2XC81B8G3[redacted]) 3-9-2017 1800 08.DrumrollLog
Start Time	3/9/2017 6 00:04 PM
End Time	3/9/2017 6:17:55 PM
Duration	18 minute(s)

System Information

domain	RE_recorder1
sapiversion	1.14.553 0
toolid	DD-A3-7B-92-E0
machinename	RE_RECORDER1
user	RE40
appversion	8 5 3413 0
appname	Drumroll

Session #1

File Name	(YE2XC81B8G3[redacted]) 3-9-2017 1800 08.DrumrollLog
Start Time	3/9/2017 6 00:04 PM
End Time	3/9/2017 6:17:55 PM
Connection Time	18 minute(s)

Inactive Faults

3719/15	DPF Zone 3 Condition
3719/16	Soot Level High
3719/31	DPF Zone 2 Condition
158/7	ACM Power Down - Key Off Purge Cycle

J1939-33 - Body Controller

Diagnostic Variant	ROLLCALL

J1939-51 - Tire Pressure Controller

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	SmarTire Systems Inc
Make	SMTR
Model	J1939rcvr200 0184
Serial Number	
Unit Number (Power Unit)	
Software Identification	SMTR*APP248 0053*V2.20*BLD248 0063*V1.06*APP248.0074*V03.13*

J1939-3 - Transmission #1

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Allison Transmission, GMC

J1939-15 - Retarder - Engine

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Detroit Diesel Corporation
Software Identification	034*000*000*000*R*?*A*010*004*14*07*09*13*51*15 3100 00080*

J1939-40 - Cab Display #1

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	SmarTire Systems Inc
Make	SMTR
Model	200.0217V0
Serial Number	1510008
Unit Number (Power Unit)	
Software Identification	SMTR*K098857*V1.0*

J1939-5 - Shift Console - Primary

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Allison Transmission, GMC

J1939-74 - Communications Unit, Cellular

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Zonar Systems Inc
Make	ZONAR
Model	DTNA TP, DTNA Telematics Platform
Serial Number	0011661794
Unit Number (Power Unit)	
Software Identification	16/21/01*010221*0308000000000*0129*

J1939-11 - Brakes -

System Controller

Diagnostic Variant	ROLLCALL

J1939-62 - Vehicle Dynamic Stability Controller

Diagnostic Variant	ROLLCALL

J1939-255 - GLOBAL (All-Any Node)

Diagnostic Variant	ROLLCALL

CPC04T - Common Powertrain Controller 4

CBF Version	01.02.54
Diagnostic Variant	App_0410

Device Configuration

Software Mode	Running in Application

Device Information

Software Version	R34_00_000A
Diagnostic Version	10
Shift Map Part Number	
ECU Serial Number	15.3100.00080
Hardware Part Number	A003 446 10 02 ZGS 005
Software Part Number	A017 448 66 02 ZGS 001
Software Date	7/9/2014 1 51:00 PM Coordinated Universal Time
Real Time Clock	3/9/2017 5:46:50 PM Coordinated Universal Time

Vehicle Identification

VIN	YE2XC81B8G3[redacted]
Engine Serial Number	471934S0339152
Odometer	62190.6 miles

MCM21T - Motor Control Module 2.1

CBF Version	21.0.259
Diagnostic Variant	mcm_0x06C1

Device Configuration

Fuelmap Part Number	A029 448 96 35 ZGS 002
Fuel Map Description	R_47000_1SF134S003
Certification Number	471LA15a5_450/1650
Software Mode	Running in Application
Rating Code	A0294489635
Application Code	06N04C0334
Application Code Part Number	A0514471535_001

Device Information

Software Version	4.7 0 0
Diagnostic Version	193
ECU Serial Number	0037868717
Hardware Part Number	A001 446 28 35 ZGS 002
Software Part Number	A017 448 56 35 ZGS 001

OBD

Calibration D	147001N110000003
Calibration Verification Number	735CC43C

Stored Data

Engine Type Enumeration: Engine Type Enum	DD13
MCM Component: sys_engine_model_no_1m	471N13*

Vehicle Identification

VIN	YE2XC81B8G3[redacted]
Engine Serial Number	471934S0339152
Engine Type	DD13

ACM21T - Aftertreatment Control Module 2.1

CBF Version	21.0.274
Diagnostic Variant	acm_0x0221

Device Configuration

Fuelmap Part Number	A016 448 18 54 ZGS 003
Certification Number	
Software Mode	Running in Application
Application Code	06N04C1247
Application Code Part Number	A0514471154_002

Device Information

Software Version	5 57.0.0
Diagnostic Version	33
ECU Serial Number	F47D4201

Hardware Part Number	A000 446 46 54 ZGS 003
Software Part Number	A010 448 69 54 ZGS 001

OBD

Calibration D	25v0039490000026
Calibration Verification Number	18053C9A
NOX Engine Calibration D	NOx-SW7010 ATI1
NOX Engine Calibration Verification Number	45C15E8A
NOX Tail Pipe Calibration ID	NOx-SW7010 ATO1
NOX Tail Pipe Calibration Verification Number	4AD47D93
PM Sensor Calibration ID	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
PM Sensor Calibration Verification Number	00000000

Vehicle Identification

VIN	YE2XC81B8G3[redacted]

TCM03T - Transmission Control Module Allison

CBF Version	0 00.856
Diagnostic Variant	App_0500

Device Configuration

Software Mode	Running in Application

Device Information

ECU Serial Number	BK0691A350520012
ECU Calibration Number	C15100106A73C
Software Version	W15BCD_PC_~~5J69~~~~~
Hardware Configuration Number	A63
Hardware Supplier	Allison

Vehicle Identification

Transmission Type	B500

Session #2

File Name	File not found
Start Time	3/9/2017 6 01:13 PM
End Time	3/9/2017 6 02:06 PM
Connection Time	54 second(s)

J1939-3 - Transmission #1

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Allison Transmission, GMC

J1939-1 - Engine #2

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Detroit Diesel Corporation
Software Identification	0500040000004070000*090F01*0006C103*0C1A00*0E28000E2800*0037868717*00*525F34373030305F3153463133345330303300000000000000000000
OBD Compliance	Heavy Duty/On-Board Diagnostics (CARB CCR 1971.1)
Calibration Identification	147001N110000003
Calibration Verification Number	735CC43C

J1939-0 - Engine #1

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Detroit Diesel Corporation
Make	DTDSC
Model	471N13
Serial Number	S0339152
Unit Number (Power Unit)	
Software Identification	034*000*000*000*R*?*A*010*004*14*07*09*13*51*15 3100 00080*
Vehicle Identification Number	YE2XC81B8G3[redacted]
OBD Compliance	Heavy Duty/On-Board Diagnostics (CARB CCR 1971.1)
Calibration Identification	0Y00R0000void
Calibration Verification Number	541A4258

J1939-61 - Exhaust Emission Controller

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Detroit Diesel Corporation
Software Identification	040003FFFFFF05390000*0C2600*00022103*0C0E00*0E0E00FFFFFF*0021134836*00*415F3535373030305F313132335F58584F585F533034340000000(
OBD Compliance	Heavy Duty/On-Board Diagnostics (CARB CCR 1971.1)
Calibration Identification	25v0039490000026, NOx-SW7010 ATI1, NOx-SW7010 ATO1
Calibration Verification Number	18053C9A, 45C15E8A, 4AD47D93

Session #3

File Name	File not found
Start Time	3/9/2017 6 03:21 PM
End Time	3/9/2017 6 03:41 PM
Connection Time	20 second(s)

J1939-61 - Exhaust Emission Controller

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Detroit Diesel Corporation
Software Identification	040003FFFFFF05390000*0C2600*00022103*0C0E00*0E0E00FFFFFF*0021134836*00*415F3535373030305F313132335F58584F585F533034340000000(
OBD Compliance	Heavy Duty/On-Board Diagnostics (CARB CCR 1971.1)
Calibration Identification	25v0039490000026, NOx-SW7010 ATI1, NOx-SW7010 ATO1
Calibration Verification Number	18053C9A, 45C15E8A, 4AD47D93

Session #4

File Name	File not found
Start Time	3/9/2017 6 03:45 PM
End Time	3/9/2017 6 03:57 PM
Connection Time	12 second(s)

J1939-3 - Transmission #1

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Allison Transmission, GMC

J1939-15 - Retarder - Engine

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Detroit Diesel Corporation
Software Identification	034*000*000*000*R*?*A*010*004*14*07*09*13*51*15 3100 00080*

Session #5

File Name	File not found
Start Time	3/9/2017 6 04:20 PM
End Time	3/9/2017 6 04:41 PM
Connection Time	20 second(s)

J1939-1 - Engine #2

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Detroit Diesel Corporation
Software Identification	0500040000004070000*090F01*0006C103*0C1A00*0E28000E2800*0037868717*00*525F34373030305F3153463133345330303300000000000000000000
OBD Compliance	Heavy Duty/On-Board Diagnostics (CARB CCR 1971.1)
Calibration Identification	147001N110000003
Calibration Verification Number	735CC43C

J1939-0 - Engine #1

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Detroit Diesel Corporation
Make	DTDSC
Model	471N13
Serial Number	S0339152
Unit Number (Power Unit)	
Software Identification	034*000*000*000*R*?*A*010*004*14*07*09*13*51*15 3100 00080*
Vehicle Identification Number	YE2XC81B8G3[redacted]
OBD Compliance	Heavy Duty/On-Board Diagnostics (CARB CCR 1971.1)
Calibration Identification	0Y00R0000void
Calibration Verification Number	541A4258

Session #6

File Name	File not found
Start Time	3/9/2017 6 05:32 PM
End Time	3/9/2017 6 09:06 PM
Connection Time	4 minute(s)

Active Faults

241/18	Tire Pressure - Data Valid But Below Normal Operating Range - Moderately Severe Level
241/1	Tire Pressure - Data valid but below normal operational range

Inactive Faults

3719/31	Diesel Particulate Filter 1 Soot Load Percent - Condition Exists
3719/15	Diesel Particulate Filter 1 Soot Load Percent - Data Valid But Above Normal Operating Range - Least Severe Level
3719/16	Diesel Particulate Filter 1 Soot Load Percent - Data Valid But Above Normal Operating Range - Moderately Severe Level
158/7	Keyswitch Battery Potential - Mechanical system not responding properly

J1939-33 - Body Controller

Diagnostic Variant	ROLLCALL

J1939-51 - Tire Pressure Controller

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	SmarTire Systems Inc
Make	SMTR
Model	J1939rcvr200 0184
Serial Number	
Unit Number (Power Unit)	
Software Identification	SMTR*APP248 0053*V2.20*BLD248 0063*V1.06*APP248.0074*V03.13*

J1939-15 - Retarder - Engine

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Detroit Diesel Corporation
Software Identification	034*000*000*000*R*?*A*010*004*14*07*09*13*51*15 3100 00080*

J1939-40 - Cab Display #1

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	SmarTire Systems Inc
Make	SMTR
Model	200.0217V0
Serial Number	1510008
Unit Number (Power Unit)	
Software Identification	SMTR*K098857*V1.0*

J1939-5 - Shift Console - Primary

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Allison Transmission, GMC

J1939-74 - Communications Unit, Cellular

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Zonar Systems Inc
Make	ZONAR
Model	DTNA TP, DTNA Telematics Platform
Serial Number	0011661794
Unit Number (Power Unit)	
Software Identification	16/21/01*010221*0308000000000*0129*

J1939-11 - Brakes - System Controller

Diagnostic Variant	ROLLCALL

J1939-62 - Vehicle Dynamic Stability Controller

Diagnostic Variant	ROLLCALL

J1939-1 - Engine #2

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Detroit Diesel Corporation
Software Identification	0500040000000404070000*090F01*0006C103*0C1A00*0E28000E2800*0037868717*00*525F34373030305F3153463133345330303300000000000000000000
OBD Compliance	Heavy Duty/On-Board Diagnostics (CARB CCR 1971.1)
Calibration Identification	147001N110000003
Calibration Verification Number	735CC43C

J1939-0 - Engine #1

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Detroit Diesel Corporation
Make	DTDSC
Model	471N13
Serial Number	S0339152
Unit Number (Power Unit)	
Software Identification	034*000*000*000*R*?*A*010*004*14*07*09*13*51*15 3100 00080*
Vehicle Identification Number	YE2XC81B8G3[redacted]
OBD Compliance	Heavy Duty/On-Board Diagnostics (CARB CCR 1971.1)
Calibration Identification	0Y00R0000void
Calibration Verification Number	541A4258

J1939-61 - Exhaust Emission Controller

Diagnostic Variant	ROLLCALL

Common

Manufacturer Code	Detroit Diesel Corporation
Software Identification	040003FFFFFF05390000*0C2600*00022103*0C0E00*0E0E00FFFFFF*0021134836*00*415F3535373030305F313132335F58584F585F533034340000000(
OBD Compliance	Heavy Duty/On-Board Diagnostics (CARB CCR 1971.1)
Calibration Identification	25v0039490000026, NOx-SW7010 ATI1, NOx-SW7010 ATO1
Calibration Verification Number	18053C9A, 45C15E8A, 4AD47D93

J1939-49 - Cab Controller - Primary

Diagnostic Variant	ROLLCALL

J1939-3 - Transmission #1

Diagnostic Variant	ALLISON

Common

Manufacturer Code	Allison Transmission, GMC
Make	ALLSN
Model	B500
Serial Number	
Unit Number (Power Unit)	
Software Identification	W15BCD_PC_5J69*C15100106A73C*

Rating

– MCM21T - Motor Control Module 2.1 mcm_0x06C1

Rating

Rated Brake Power for Rating 0	451 BHP
Rated Brake Power for Rating 1	451 BHP
Rated Brake Power for Rating 2	0 BHP
Rated Engine Speed for Rating 0	1800.0 rpm
Rated Engine Speed for Rating 1	1800.0 rpm
Rated Engine Speed for Rating 2	0.0 rpm
Maximum Engine Torque	1649.9 ft-lb
Maximum Torque Speed	1240.0 rpm
Governed Power for Rating 0	315 BHP
Governed Power for Rating 1	315 BHP
Governed Power for Rating 2	0 BHP
Governed Engine Speed	2080.0 rpm

Stored Data

– CPC04T - Common Powertrain Controller 4

App_0410

Stored Data

Active Diagnostic Information: Gateway	true
Active Diagnostic Information: Session Type	Extended
Active Diagnostic Information: Variant	4
Active Diagnostic Information: Version	10
CDS (calibration data set) Information: CheckSum	00000000
CDS (calibration data set) Information: Group ID	0
CDS (calibration data set) Information: PL	00
CDS (calibration data set) Information: StructVersion	0
CDS (calibration data set) Information: week	* week
CDS (calibration data set) Information: year	2000 year
CPC HW Information: Hardware Version	D0
CPC HW Information: Reserved for Major Number	00
CPC HW Information: Reserved for Minor Number	00
CPC Software/Diagnostic Information: Boot SW Index	16
CPC Software/Diagnostic Information: Boot SW Subindex	0
CPC Software/Diagnostic Information: Boot SW Version	4
CPC Software/Diagnostic Information: Configuration ID	0
CPC Software/Diagnostic Information: Diagnostic Variant	4
CPC Software/Diagnostic Information: Logical Block 0	0
CPC Software/Diagnostic Information: Logical Block 1	1
Calibration Information CVN: CVN	541A4258
Calibration Information: Cal D	0Y00R0000void
Diagnostic Specification Information: Diagnostic Performance Requirements Standard	DC-10746 Rev. B
Diagnostic Specification Information: ECU Reprogramming Requirements - Specification Version	DC-10761
Diagnostic Specification Information: Unified Diagnostic Services Protocol Version	DC-10747 Rev. A
Engine D: Make	DTDSC
Engine D: Model, Engine Serial, Unit No.	471N13*S0339152* *
Firmware VN, request: Firmware VN	74CD4039
Hardware Supplier: Information	Siemens VDO
Hardware Version: Patch Level	0
Hardware Version: Week	188
Hardware Version: Year	15
Mercedes Truck ECU: Part Number	0034461002005

– MCM21T - Motor Control Module 2.1

mcm_0x06C1

Stored Data

EHM Vehicle Distance: Total Vehicle Distance	0.00 miles
Historical Interrogation Record: DTC Read Counter	13
Historical Interrogation Record: Odometer	40284.7 miles
Active Diagnostic Information: Gateway	false
Active Diagnostic Information: Session Type	Extended
Active Diagnostic Information: Variant	6
Boot Software Version: Patch Level	0
Boot Software Version: Week	26
Boot Software Version: Year	12
Compatibility List: Diagnostic Status	0
Compatibility List: Diagnostic Variant	6
Compatibility List: Diagnostic Version	193
DDC Fuelmap Part Number: DDC Fuel Map Part Number	
Diagnostic Readiness 1: Boost pressure system monitoring ready	Test Completed
Diagnostic Readiness 1: Boost pressure system monitoring supported	Supported
Diagnostic Readiness 1: Comprehensive component monitoring ready	Test Completed
Diagnostic Readiness 1: Comprehensive component monitoring supported	Supported
Diagnostic Readiness 1: Compression Ignition monitoring supported	Supported
Diagnostic Readiness 1: EGR and/or VVT system monitoring ready	Test Completed
Diagnostic Readiness 1: EGR and/or VVT system monitoring supported	Supported
Diagnostic Readiness 1: Exhaust gas sensor monitoring ready	Test Not Completed
Diagnostic Readiness 1: Exhaust gas sensor monitoring supported	Supported
Diagnostic Readiness 1: Fuel system monitoring ready	Test Completed
Diagnostic Readiness 1: Fuel system monitoring supported	Supported
Diagnostic Readiness 1 HexDump: Diagnostic Readiness 1 Data	000FA820
Diagnostic Readiness 1: Iso/sae reserved (bit shall be reported as "0")_1	0
Diagnostic Readiness 1: M L Status	0
Diagnostic Readiness 1: Misfire monitoring ready	Test Completed
Diagnostic Readiness 1: Misfire monitoring supported	Supported
Diagnostic Readiness 1: NMHC catalyst monitoring ready	Test Completed
Diagnostic Readiness 1: NMHC catalyst monitoring supported	Not Supported
Diagnostic Readiness 1: NOx aftertreatment monitoring ready	Test Completed
Diagnostic Readiness 1: NOx aftertreatment monitoring supported	Not Supported
Diagnostic Readiness 1: Number of DTCs stored in FMM	0
Diagnostic Readiness 1: PM filter monitoring ready	Test Completed
Diagnostic Readiness 1: PM filter monitoring supported	Not Supported
Diagnostic Readiness 3: Boost pressure system monitoring Completed	Not Completed
Diagnostic Readiness 3: Boost pressure system monitoring Enabled	Enabled
Diagnostic Readiness 3: Comprehensive component monitoring completed	Completed
Diagnostic Readiness 3: Comprehensive component monitoring enabled	Enabled
Diagnostic Readiness 3: EGR system monitoring Completed	Not Completed
Diagnostic Readiness 3: EGR system monitoring Enabled	Enabled

Diagnostic Readiness 3: Exhaust gas sensor monitoring completed	Not Completed
Diagnostic Readiness 3: Exhaust gas sensor monitoring enabled	Enabled
Diagnostic Readiness 3: Fuel System monitoring completed	Not Completed
Diagnostic Readiness 3: Fuel system monitoring enabled	Enabled
Diagnostic Readiness 3: Misfire monitoring completed	Not Completed
Diagnostic Readiness 3: Misfire monitoring enabled	Enabled
Diagnostic Readiness 3: NMHC catalyst monitoring Completed	Completed
Diagnostic Readiness 3: NMHC catalyst monitoring Enabled	Not Enabled
Diagnostic Readiness 3: NOx aftertreatment monitoring Completed	Completed
Diagnostic Readiness 3: NOx aftertreatment monitoring Enabled	Not Enabled
Diagnostic Readiness 3: PM filter monitoring Completed	Completed
Diagnostic Readiness 3: PM filter monitoring Enabled	Not Enabled
ECU Origin: Data	DCS
Engine Type Enumeration: Engine Type Enum	DD13
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[0]	52
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[1]	55
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[10]	52
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[11]	53
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[12]	48
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[13]	47
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[14]	49
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[15]	54
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[2]	49
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[3]	76
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[4]	65
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[5]	49
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[6]	53
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[7]	97
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[8]	53
Exhaust Regulation or Type Approval Number_NAFTA: sys_cal_erotan_1m[9]	95
Hardware Supplier: Information	Continental
Hardware Supplier production date: cal_week	15
Hardware Supplier production date: cal_year	15
Hardware Version: HW Release Patch	1
Hardware Version: HW Release Week	29
Hardware Version: HW Release Year	12
Input Air Throttle Modification block: iat_cls1_dur	0 s
Input Air Throttle Modification block: iat_cls2_dur	0 s
Input Air Throttle Modification block: iat_iae_final_val	10 %
Input Air Throttle Modification block: iat_opn1_dur	0 s
Input Air Throttle Modification block: iat_opn2_dur	0 s
MCM Component: engine_id_str	S033915
MCM Component: sys_component_id_make_1m	DTDSC*
MCM Component: sys_engine_model_no_1m	471N13*
OBD Compliance: obd_compliance	Heavy Duty/On-Board Diagnostics (CARB CCR 1971.1)
ReadF810 Protocol Identification: Protocol type	Request out of range
ReadF811 GTR Number: GTR Number	GTR_gtr_No.
Read Configuration Fingerprint: CUSTOMER_LEVEL_Configuration Block Number	01
Read Configuration Fingerprint: CUSTOMER_LEVEL_Programming Date (Day)	* day
Read Configuration Fingerprint: CUSTOMER_LEVEL_Programming Date (Month)	* month
Read Configuration Fingerprint: CUSTOMER_LEVEL_Programming Date (Year)	2255 year
Read Configuration Fingerprint: CUSTOMER_LEVEL_Supplier Identification HighByte	FF
Read Configuration Fingerprint: CUSTOMER_LEVEL_Supplier Identification LowByte	FF
Read Configuration Fingerprint: CUSTOMER_LEVEL_Tool Serial Number	FFFFFFFF
Read Configuration Fingerprint: DEVELOPMENT_LEVEL_Configuration Block Number	04
Read Configuration Fingerprint: DEVELOPMENT_LEVEL_Programming Date (Day)	* day
Read Configuration Fingerprint: DEVELOPMENT_LEVEL_Programming Date (Month)	* month
Read Configuration Fingerprint: DEVELOPMENT_LEVEL_Programming Date (Year)	2255 year
Read Configuration Fingerprint: DEVELOPMENT_LEVEL_Supplier Identification HighByte	FF
Read Configuration Fingerprint: DEVELOPMENT_LEVEL_Supplier Identification LowByte	FF
Read Configuration Fingerprint: DEVELOPMENT_LEVEL_Tool Serial Number	FFFFFFFF
Read Configuration Fingerprint: PRODUCTION_LEVEL_Configuration Block Number	03
Read Configuration Fingerprint: PRODUCTION_LEVEL_Programming Date (Day)	1 day
Read Configuration Fingerprint: PRODUCTION_LEVEL_Programming Date (Month)	5 month
Read Configuration Fingerprint: PRODUCTION_LEVEL_Programming Date (Year)	2015 year
Read Configuration Fingerprint: PRODUCTION_LEVEL_Supplier Identification HighByte	00
Read Configuration Fingerprint: PRODUCTION_LEVEL_Supplier Identification LowByte	04
Read Configuration Fingerprint: PRODUCTION_LEVEL_Tool Serial Number	00000000
Read Configuration Fingerprint: SERVICE_LEVEL_Configuration Block Number	02
Read Configuration Fingerprint: SERVICE_LEVEL_Programming Date (Day)	* day
Read Configuration Fingerprint: SERVICE_LEVEL_Programming Date (Month)	* month
Read Configuration Fingerprint: SERVICE_LEVEL_Programming Date (Year)	2255 year
Read Configuration Fingerprint: SERVICE_LEVEL_Supplier Identification HighByte	FF
Read Configuration Fingerprint: SERVICE_LEVEL_Supplier Identification LowByte	FF
Read Configuration Fingerprint: SERVICE_LEVEL_Tool Serial Number	FFFFFFFF
Read Configuration Write Counter: Access Level - Customer	1
Read Configuration Write Counter: Access Level - Development	4
Read Configuration Write Counter: Access Level - Production	3
Read Configuration Write Counter: Access Level - Service	2
Read Configuration Write Counter: Counter - Customer	0007
Read Configuration Write Counter: Counter - Development	0000
Read Configuration Write Counter: Counter - Production	0002
Read Configuration Write Counter: Counter - Service	0000
Read Curent ECU ID: Checksum	D1F2

	0241D4AD
Read Curent ECU ID: Version Byte	01
Read DTC that caused a Freeze Frame storage ID: DTCHighByte / SPN Low Byte	00
Read DTC that caused a Freeze Frame storage ID: DTCLowByte / SPN High Byte	00
Read DTC that caused a Freeze Frame storage ID: DTCMiddleByte / SPN Mid Byte	00
Read Fingerprint: Hardware Mismatch	no mismatch
Read Fingerprint: Hardware Mismatch Fuelmap	no mismatch
Read Fingerprint: Logical Block	false
Read Fingerprint: Logical Block Fuelmap	false
Read Fingerprint: Programming Date (Day) - Firmware	1
Read Fingerprint: Programming Date (Day) - Fuelmap	30
Read Fingerprint: Programming Date (Month) - Firmware	5
Read Fingerprint: Programming Date (Month) - Fuelmap	11
Read Fingerprint: Programming Date (Year) - Firmware	15
Read Fingerprint: Programming Date (Year) - Fuelmap	15
Read Fingerprint: Software Mismatch	no mismatch
Read Fingerprint: Software Mismatch Fuelmap	no mismatch
Read Fingerprint: Software Programmed and Valid	Ok
Read Fingerprint: Software Programmed and Valid Fuelmap	Ok
Read Fingerprint: Supplier Identification - Firmware	0004
Read Fingerprint: Supplier Identification - Fuelmap	0004
Read Fingerprint: Tool Serial Number - Firmware	00000000
Read Fingerprint: Tool Serial Number - Fuelmap	C7522763
Read NTE status: Manufacturer_specific_NOx_NTE_Carve_out_Area_Status	Outside Area
Read NTE status: NOx NTE Control Area status	Outside Control Area
Read NTE status: NOx NTE Deficiency Area Status	Outside Area
Read NTE status: reserved	3
Read Nox control information service: EU6: Dummy counter	0
Read Nox control information service: EU6: Failure Monitoring System counter	0
Read Nox control information service: EU6: Impeded EGR Valve counter	0
Read Nox control information service: EU6: Incorrect Reagent Consumption counter	0
Read Nox control information service: EU6: Incorrect reagent quality counter	0
Read Nox control information service: EU6: Interruption of reagent dosing counter	0
Read Nox control information service: EU6: Low reagent level counter	0
Read Nox control information service: low inducement system status	non-active
Read Nox control information service: number of engine hours since "Nox control information" was last cleared	64255
Read Nox control information service: severe inducement syste status	non-active
Read Nox control information service: warm-up cycles since "Nox control information" was last cleared	250
Read Nox control information service: warning system status	not active
Read PM NTE status: Manufacturer-specific PM NTE Carve-out Area Status	Outside Area
Read PM NTE status: PM NTE Control Area Status	Outside Control Area
Read PM NTE status: PM NTE Deficiency Area Status	Outside Area
Read PM NTE status: reserved	3
Read Routine/IO-Control Fingerprint: CUSTOMER_LEVEL_Programming Date (Day)	9 day
Read Routine/IO-Control Fingerprint: CUSTOMER_LEVEL_Programming Date (Month)	3 month
Read Routine/IO-Control Fingerprint: CUSTOMER_LEVEL_Programming Date (Year)	2017 year
Read Routine/IO-Control Fingerprint: CUSTOMER_LEVEL_Routine I/O Group #1	01
Read Routine/IO-Control Fingerprint: CUSTOMER_LEVEL_Supplier Identification HighByte	00
Read Routine/IO-Control Fingerprint: CUSTOMER_LEVEL_Supplier Identification LowByte	04
Read Routine/IO-Control Fingerprint: CUSTOMER_LEVEL_Tool Serial Number	DDA37B92
Read Routine/IO-Control Fingerprint: DEVELOPMENT_LEVEL_Programming Date (Day)	* day
Read Routine/IO-Control Fingerprint: DEVELOPMENT_LEVEL_Programming Date (Month)	* month
Read Routine/IO-Control Fingerprint: DEVELOPMENT_LEVEL_Programming Date (Year)	2255 year
Read Routine/IO-Control Fingerprint: DEVELOPMENT_LEVEL_Routine I/O Group #4	04
Read Routine/IO-Control Fingerprint: DEVELOPMENT_LEVEL_Supplier Identification HighByte	FF
Read Routine/IO-Control Fingerprint: DEVELOPMENT_LEVEL_Supplier Identification LowByte	FF
Read Routine/IO-Control Fingerprint: DEVELOPMENT_LEVEL_Tool Serial Number	FFFFFFFF
Read Routine/IO-Control Fingerprint: PRODUCTION_LEVEL_Programming Date (Day)	* day
Read Routine/IO-Control Fingerprint: PRODUCTION_LEVEL_Programming Date (Month)	* month
Read Routine/IO-Control Fingerprint: PRODUCTION_LEVEL_Programming Date (Year)	2255 year
Read Routine/IO-Control Fingerprint: PRODUCTION_LEVEL_Routine I/O Group #3	03
Read Routine/IO-Control Fingerprint: PRODUCTION_LEVEL_Supplier Identification HighByte	FF
Read Routine/IO-Control Fingerprint: PRODUCTION_LEVEL_Supplier Identification LowByte	FF
Read Routine/IO-Control Fingerprint: PRODUCTION_LEVEL_Tool Serial Number	FFFFFFFF
Read Routine/IO-Control Fingerprint: SECRET_LEVEL_Programming Date (Day)	* day
Read Routine/IO-Control Fingerprint: SECRET_LEVEL_Programming Date (Month)	* month
Read Routine/IO-Control Fingerprint: SECRET_LEVEL_Programming Date (Year)	2255 year
Read Routine/IO-Control Fingerprint: SECRET_LEVEL_Routine I/O Group #5	05
Read Routine/IO-Control Fingerprint: SECRET_LEVEL_Supplier Identification HighByte	FF
Read Routine/IO-Control Fingerprint: SECRET_LEVEL_Supplier Identification LowByte	FF
Read Routine/IO-Control Fingerprint: SECRET_LEVEL_Tool Serial Number	FFFFFFFF
Read Routine/IO-Control Fingerprint: SERVICE_LEVEL_Programming Date (Day)	* day
Read Routine/IO-Control Fingerprint: SERVICE_LEVEL_Programming Date (Month)	* month
Read Routine/IO-Control Fingerprint: SERVICE_LEVEL_Programming Date (Year)	2255 year
Read Routine/IO-Control Fingerprint: SERVICE_LEVEL_Routine I/O Group #2	02
Read Routine/IO-Control Fingerprint: SERVICE_LEVEL_Supplier Identification HighByte	FF
Read Routine/IO-Control Fingerprint: SERVICE_LEVEL_Supplier Identification LowByte	FF
Read Routine/IO-Control Fingerprint: SERVICE_LEVEL_Tool Serial Number	FFFFFFFF
Read Target Link inducement information: ACM FR2	FFFF
Read Target Link inducement information: MCM FR2	FFFF
Read Target Link inducement information: Prioritized System FR2	FFFF
Read Target Link inducement information: System FR2	FFFF
Read VIN Original: VIN	YE2XC81B8G3[redacted]
Related SW Version: low_byte	01

	01
Related SW Version: middle_byte	00
Software Supplier: Firmware Supplier	Continental Automotive Systems
Software Supplier: Fuelmap Supplier	Continental Automotive Systems
Software Version: Firmware Patch Level	0
Software Version: Firmware Week	40
Software Version: Firmware Year	14
Software Version: Fuelmap Patch Level	0
Software Version: Fuelmap Week	40
Software Version: Fuelmap Year	14
Supplier Specific Low Level SW Version: Engine type	HDEP
Supplier Specific Low Level SW Version: SW KW	40
Supplier Specific Low Level SW Version: SW version	M04.07 00.000
Supplier Specific Low Level SW Version: SW year	14
Supplier Specific Low Level SW Version: Software region	NAFTA / Not Prototype SW
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #1	162
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #2	199
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #3	66
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #4	39
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #5	80
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #6	0
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #7 (just High Nibble)	1
System Supplier ECU Hardware Part Number: reserved 1	0
System Supplier ECU Hardware Part Number: reserved 2	0
System Supplier ECU Hardware Part Number: reserved 3	0
System Supplier ECU Hardware Part Number: reserved 4	0
System Supplier ECU Hardware Part Number: reserved 5	0
System Supplier ECU Hardware Part Number: reserved 6	0
System Supplier ECU Hardware Version Number: HW Release Patch	1
System Supplier ECU Hardware Version Number: HW Release Week	29
System Supplier ECU Hardware Version Number: HW Release Year	12
System Supplier ECU SW Version Number: FBL_PATCH_NUMBER	4
System Supplier ECU SW Version Number: FBL_RELEASE_NUMBER	5
System Supplier ECU SW Version Number: FBL_SUBRELEASE_NUMBER	0
System Supplier ECU SW Version Number: reserved for ORIG_FIRMWARE_PATCH_NUMBER	0
System Supplier ECU SW Version Number: reserved for ORIG_FIRMWARE_RELEASE_NUMBER	0
System Supplier ECU SW Version Number: reserved for ORIG_FIRMWARE_SUBRELEASE_NUMBER	0
System Supplier ECU Software Part Number: Current Firmware	0174485635001
System Supplier ECU Software Part Number: Fuelmap	0294489635002
System Supplier ECU Software Version Number: Current Firmware Prototype SW Release Number	0
System Supplier ECU Software Version Number: Current Firmware SW Version Patch Number	0
System Supplier ECU Software Version Number: Current Firmware SW Version Release Number	4
System Supplier ECU Software Version Number: Current Firmware SW Version Subrelease Number	7
System Supplier ECU Software Version Number: FBL_PATCH_NUMBER	4
System Supplier ECU Software Version Number: FBL_RELEASE_NUMBER	5
System Supplier ECU Software Version Number: FBL_SUBRELEASE_NUMBER	0
System Supplier ECU Software Version Number: reserved for ORIG_FIRMWARE_PATCH_NUMBER	0
System Supplier ECU Software Version Number: reserved for ORIG_FIRMWARE_RELEASE_NUMBER	0
System Supplier ECU Software Version Number: reserved for ORIG_FIRMWARE_SUBRELEASE_NUMBER	0
VIN Odometer: VIN Odometer	250 km/bit
VIN Odometer limit: VIN Odometer limit	250 km/bit
Programming Attempt Counter: EcuActFirmProgAttempts	1
Programming Attempt Counter: EcuActFuelProgAttempts	2
Programming Attempt Counter: MaxFirmProgAttempts	1023
Programming Attempt Counter: MaxFuelProgAttempts	1023
Read Aggregate System Number: Aggregate Sytem Number	A0514471535_001
Read DM29 Information - No of DTCs: All Pending DTCs	0
Read DM29 Information - No of DTCs: Emission related Pending DTCs	0
Read DM29 Information - No of DTCs: Pending DTCs M L-ON	0
Read DM29 Information - No of DTCs: Permanent DTCs	0
Read DM29 Information - No of DTCs: Previously DTCs MIL-ON	0
Read MU individual rates DataFrame1: Assigned RBM group number 1	0
Read MU individual rates DataFrame1: Assigned RBM group number 10	0
Read MU individual rates DataFrame1: Assigned RBM group number 11	0
Read MU individual rates DataFrame1: Assigned RBM group number 12	0
Read MU individual rates DataFrame1: Assigned RBM group number 13	0
Read MU individual rates DataFrame1: Assigned RBM group number 14	0
Read MU individual rates DataFrame1: Assigned RBM group number 15	0
Read MU individual rates DataFrame1: Assigned RBM group number 16	0
Read MU individual rates DataFrame1: Assigned RBM group number 17	0
Read MU individual rates DataFrame1: Assigned RBM group number 18	0
Read MU individual rates DataFrame1: Assigned RBM group number 19	0
Read MU individual rates DataFrame1: Assigned RBM group number 2	0
Read MU individual rates DataFrame1: Assigned RBM group number 20	0
Read MU individual rates DataFrame1: Assigned RBM group number 21	0
Read MU individual rates DataFrame1: Assigned RBM group number 22	0
Read MU individual rates DataFrame1: Assigned RBM group number 23	0
Read MU individual rates DataFrame1: Assigned RBM group number 24	0
Read MU individual rates DataFrame1: Assigned RBM group number 25	0
Read MU individual rates DataFrame1: Assigned RBM group number 26	0
Read MU individual rates DataFrame1: Assigned RBM group number 27	0
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Read MU individual rates DataFrame1: Assigned RBM group number 29	0
Read MU individual rates DataFrame1: Assigned RBM group number 3	0

	0
Read MU individual rates DataFrame1: Assigned RBM group number 31	0
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Read MU individual rates DataFrame1: Assigned RBM group number 9	0
Read MU individual rates DataFrame1: Denominator value 1	128
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Read MU individual rates DataFrame1: SPN High Byte + FMI 44	07

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Read MU individual rates DataFrame1: SPN Mid Byte 36	05
Read MU individual rates DataFrame1: SPN Mid Byte 37	05
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Read MU individual rates DataFrame2: SPN High Byte + FMI 11	12
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Read MU individual rates DataFrame2: SPN High Byte + FMI 16	0F
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Read MU individual rates DataFrame2: SPN High Byte + FMI 18	0E
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Read MU individual rates DataFrame2: SPN High Byte + FMI 31	E3
Read MU individual rates DataFrame2: SPN High Byte + FMI 32	E3
Read MU individual rates DataFrame2: SPN High Byte + FMI 33	10
Read MU individual rates DataFrame2: SPN High Byte + FMI 34	12
Read MU individual rates DataFrame2: SPN High Byte + FMI 35	0A
Read MU individual rates DataFrame2: SPN High Byte + FMI 36	09
Read MU individual rates DataFrame2: SPN High Byte + FMI 37	0F
Read MU individual rates DataFrame2: SPN High Byte + FMI 38	10
Read MU individual rates DataFrame2: SPN High Byte + FMI 39	10
Read MU individual rates DataFrame2: SPN High Byte + FMI 4	10
Read MU individual rates DataFrame2: SPN High Byte + FMI 40	12
Read MU individual rates DataFrame2: SPN High Byte + FMI 41	04
Read MU individual rates DataFrame2: SPN High Byte + FMI 42	04
Read MU individual rates DataFrame2: SPN High Byte + FMI 43	04
Read MU individual rates DataFrame2: SPN High Byte + FMI 44	04
Read MU individual rates DataFrame2: SPN High Byte + FMI 45	04
Read MU individual rates DataFrame2: SPN High Byte + FMI 46	04
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Read MU individual rates DataFrame2: SPN High Byte + FMI 50	04
Read MU individual rates DataFrame2: SPN High Byte + FMI 6	02
Read MU individual rates DataFrame2: SPN High Byte + FMI 7	01
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Read MU individual rates DataFrame2: SPN Low Byte 36	F2
Read MU individual rates DataFrame2: SPN Low Byte 37	90
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Read MU individual rates DataFrame2: SPN Low Byte 43	8D
Read MU individual rates DataFrame2: SPN Low Byte 44	8E
Read MU individual rates DataFrame2: SPN Low Byte 45	8F
Read MU individual rates DataFrame2: SPN Low Byte 46	90
Read MU individual rates DataFrame2: SPN Low Byte 47	4B
Read MU individual rates DataFrame2: SPN Low Byte 48	4C
Read MU individual rates DataFrame2: SPN Low Byte 49	4D
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	65535
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Read MU individual rates DataFrame3: SPN Low Byte 15	F1

	F2
Read MU individual rates DataFrame3: SPN Low Byte 17	F3
Read MU individual rates DataFrame3: SPN Low Byte 18	8B
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Read MU individual rates DataFrame3: SPN Mid Byte 41	FF
Read MU individual rates DataFrame3: SPN Mid Byte 42	FF
Read MU individual rates DataFrame3: SPN Mid Byte 43	FF
Read MU individual rates DataFrame3: SPN Mid Byte 44	FF
Read MU individual rates DataFrame3: SPN Mid Byte 45	FF
Read MU individual rates DataFrame3: SPN Mid Byte 46	FF

	FF
Read MU individual rates DataFrame3: SPN Mid Byte 48	FF
Read MU individual rates DataFrame3: SPN Mid Byte 49	FF
Read MU individual rates DataFrame3: SPN Mid Byte 5	14
Read MU individual rates DataFrame3: SPN Mid Byte 50	FF
Read MU individual rates DataFrame3: SPN Mid Byte 6	14
Read MU individual rates DataFrame3: SPN Mid Byte 7	14
Read MU individual rates DataFrame3: SPN Mid Byte 8	14
Read MU individual rates DataFrame3: SPN Mid Byte 9	14
Read aggregated RBM group rates: Assigned RBM group number 1	Comprehensive Component Monitoring
Read aggregated RBM group rates: Assigned RBM group number 10	Reserved Group 2
Read aggregated RBM group rates: Assigned RBM group number 11	Reserved Group 3
Read aggregated RBM group rates: Assigned RBM group number 12	Reserved Group 4
Read aggregated RBM group rates: Assigned RBM group number 13	Reserved Group 5
Read aggregated RBM group rates: Assigned RBM group number 14	Reserved Group 6
Read aggregated RBM group rates: Assigned RBM group number 15	Reserved Group 7
Read aggregated RBM group rates: Assigned RBM group number 16	Reserved Group 8
Read aggregated RBM group rates: Assigned RBM group number 17	Reserved Group 9
Read aggregated RBM group rates: Assigned RBM group number 18	Reserved Group 10
Read aggregated RBM group rates: Assigned RBM group number 19	OBD Group for other emission releated components
Read aggregated RBM group rates: Assigned RBM group number 2	NMHC Converting Catalyst
Read aggregated RBM group rates: Assigned RBM group number 3	NOx Converting Catalyst
Read aggregated RBM group rates: Assigned RBM group number 4	Exhaust gas Sensor
Read aggregated RBM group rates: Assigned RBM group number 5	EGR System
Read aggregated RBM group rates: Assigned RBM group number 6	PM Filter
Read aggregated RBM group rates: Assigned RBM group number 7	Boost Pressure Control System
Read aggregated RBM group rates: Assigned RBM group number 8	Misfire
Read aggregated RBM group rates: Assigned RBM group number 9	Fuel System
Read aggregated RBM group rates: Denominator value 1	808
Read aggregated RBM group rates: Denominator value 10	0
Read aggregated RBM group rates: Denominator value 11	0
Read aggregated RBM group rates: Denominator value 12	0
Read aggregated RBM group rates: Denominator value 13	0
Read aggregated RBM group rates: Denominator value 14	0
Read aggregated RBM group rates: Denominator value 15	0
Read aggregated RBM group rates: Denominator value 16	0
Read aggregated RBM group rates: Denominator value 17	0
Read aggregated RBM group rates: Denominator value 18	0
Read aggregated RBM group rates: Denominator value 19	0
Read aggregated RBM group rates: Denominator value 2	0
Read aggregated RBM group rates: Denominator value 3	0
Read aggregated RBM group rates: Denominator value 4	805
Read aggregated RBM group rates: Denominator value 5	808
Read aggregated RBM group rates: Denominator value 6	0
Read aggregated RBM group rates: Denominator value 7	808
Read aggregated RBM group rates: Denominator value 8	0
Read aggregated RBM group rates: Denominator value 9	808
Read aggregated RBM group rates: General Denominator	808
Read aggregated RBM group rates: Ignition Cycle counter	1239
Read aggregated RBM group rates: Number of following MU rates	19
Read aggregated RBM group rates: Numerator value 1	2
Read aggregated RBM group rates: Numerator value 10	0
Read aggregated RBM group rates: Numerator value 11	0
Read aggregated RBM group rates: Numerator value 12	0
Read aggregated RBM group rates: Numerator value 13	0
Read aggregated RBM group rates: Numerator value 14	0
Read aggregated RBM group rates: Numerator value 15	0
Read aggregated RBM group rates: Numerator value 16	0
Read aggregated RBM group rates: Numerator value 17	0
Read aggregated RBM group rates: Numerator value 18	0
Read aggregated RBM group rates: Numerator value 19	0
Read aggregated RBM group rates: Numerator value 2	0
Read aggregated RBM group rates: Numerator value 3	0
Read aggregated RBM group rates: Numerator value 4	0
Read aggregated RBM group rates: Numerator value 5	46
Read aggregated RBM group rates: Numerator value 6	0
Read aggregated RBM group rates: Numerator value 7	11
Read aggregated RBM group rates: Numerator value 8	0
Read aggregated RBM group rates: Numerator value 9	524
Read aggregated RBM group rates: Warm up cycle counter	250
Read look up table 1: CRC16 checksum	612D
Read look up table 1: sys_look_up_table1_1m	00010203
Read look up table 1: sys_look_up_table1_vers_1m	1

– TCM03T - Transmission Control Module Allison App_0500

Stored Data

Active Diagnostic Information: Gateway	false
Active Diagnostic Information: Session Type	Extended
Active Diagnostic Information: Variant	5
Active Diagnostic Information: Version	4
ECU Manufacturing Date: Date Code	02-21-2015
Hardware Version: Patch Level	0
Hardware Version: Week	31
Hardware Version: Year	12

Hardware Compatibility Number: Hardware Compatibility Number	31
Manufacturing Traceability Data: Traceability Data	BK0691A350520012
Mercedes Truck Hardware: Part Number	1380764
Software Module Information: HIS Supplier D	FF
Software Module Information: NM Patch Level	FF
Software Module Information: NM Version	FFFF
Software Module Information: Number of Channels / Selected Channel	01
Software Module Information: Physical Layer Driver Patch Level	FF
Software Module Information: Physical Layer Driver Version	FFFF
Software Module Information: SIP Patch Level	FF
Software Module Information: SIP Version	FFFF
Software Module Information: TP Layer Patch Level	FF
Software Module Information: TP Layer Version	FFFF
Software Module Information: UDS Patch Level	FF
Software Module Information: UDS Version	FFFF
Software Module Information: VMM Patch Level	0A
Software Module Information: VMM Version (Year/Week)	1130
Software Supplier: Information	Allison
Software Version: Patch Level	0
Software Version: Week	12
Software Version: Year	15
Spare Part Number: ECU_Spare_Part_Number	11380764
System Supplier ECU HW Version Number: ECU Hardware Version Number	49
System Supplier ECU Hardware Number: ECU Part Number	29550691
System Name: System Name	ATI_G5

– ACM21T - Aftertreatment Control Module 2.1

acm_0x0221

Stored Data

Configuration Write Counter: Block Number(Customer)	01
Configuration Write Counter: Block Number(Development)	04
Configuration Write Counter: Block Number(Production)	03
Configuration Write Counter: Block Number(Service)	02
Configuration Write Counter: Counter Value(Customer)	0000
Configuration Write Counter: Counter Value(Development)	0000
Configuration Write Counter: Counter Value(Production)	0000
Configuration Write Counter: Counter Value(Service)	0001
AUT64 Challenge: AUT64 Challenge	DFA8
Active Diagnostic Information: Gateway	false
Active Diagnostic Information: Session Type	Extended
Active Diagnostic Information: Variant	2
Boot Software Version: Boot SW - Patch level	0
Boot Software Version: Boot SW - Week	14
Boot Software Version: Boot SW - Year	12
Calibration Information CVN: UQS Sensor CVN	00000000
Calibration Information: UQS Sensor Cal ID	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
Compatibility List: Active Diagnostic Status	00
Compatibility List: Active Diagnostic Variant	02
Compatibility List: Active Diagnostic Version	21
Diagnostic Readiness 1: Boost pressure system monitoring ready	Test Completed
Diagnostic Readiness 1: Boost pressure system monitoring supported	Not Supported
Diagnostic Readiness 1: Comprehensive component monitoring ready	Test Completed
Diagnostic Readiness 1: Comprehensive component monitoring supported	Supported
Diagnostic Readiness 1: Compression Ignition monitoring supported	Supported
Diagnostic Readiness 1: EGR and/or VVT system monitoring ready	Test Completed
Diagnostic Readiness 1: EGR and/or VVT system monitoring supported	Not Supported
Diagnostic Readiness 1: Exhaust gas sensor monitoring ready	Test Completed
Diagnostic Readiness 1: Exhaust gas sensor monitoring supported	Supported
Diagnostic Readiness 1: Fuel system monitoring ready	Test Completed
Diagnostic Readiness 1: Fuel system monitoring supported	Not Supported
Diagnostic Readiness 1: Iso/sae reserved (bit shall be reported as "0")	0
Diagnostic Readiness 1: M L Status	0
Diagnostic Readiness 1: Misfire monitoring ready	Test Completed

Diagnostic Readiness 1: Misfire monitoring supported	Not Supported
Diagnostic Readiness 1: NMHC catalyst monitoring ready	Test Completed
Diagnostic Readiness 1: NMHC catalyst monitoring supported	Supported
Diagnostic Readiness 1: NOx aftertreatment monitoring ready	Test Completed
Diagnostic Readiness 1: NOx aftertreatment monitoring supported	Supported
Diagnostic Readiness 1: Number of DTCs stored in FMM	0
Diagnostic Readiness 1: PM filter monitoring ready	Test Completed
Diagnostic Readiness 1: PM filter monitoring supported	Supported
Diagnostic Readiness 3: Boost pressure system monitoring completed	Complete
Diagnostic Readiness 3: Boost pressure system monitoring enabled	Not Enabled
Diagnostic Readiness 3: Comprehensive component monitoring completed	Complete
Diagnostic Readiness 3: Comprehensive component monitoring enabled	Enabled
Diagnostic Readiness 3: EGR system monitoring completed	Complete
Diagnostic Readiness 3: EGR system monitoring enabled	Not Enabled
Diagnostic Readiness 3: Exhaust Gas Sensor monitoring completed	NOT Complete
Diagnostic Readiness 3: Exhaust Gas Sensor monitoring enabled	Enabled
Diagnostic Readiness 3: Fuel System monitoring completed	Complete
Diagnostic Readiness 3: Fuel System monitoring enabled	Not Enabled
Diagnostic Readiness 3: Misfire monitoring completed	Complete
Diagnostic Readiness 3: Misfire monitoring enabled	Not Enabled
Diagnostic Readiness 3: NMHC catalyst monitoring completed	NOT Complete
Diagnostic Readiness 3: NMHC catalyst monitoring enabled	Enabled
Diagnostic Readiness 3: NOx aftertreatment monitoring completed	NOT Complete
Diagnostic Readiness 3: NOx aftertreatment monitoring enabled	Enabled
Diagnostic Readiness 3: PM filter monitoring completed	NOT Complete
Diagnostic Readiness 3: PM filter monitoring enabled	Enabled
ECU Origin: Data	DCS
ECU Serial Number: EDU ECU Serial Number	65278
ECU Serial Number: EDU ECU Serial Number - Day	254
ECU Serial Number: EDU ECU Serial Number - Month	254
ECU Serial Number: EDU ECU Serial Number - Year	254
Engine Run Time for AECD #1 to #5: Engine Run Time for AECD #1:Timer 1, Not Available	4294967295
Engine Run Time for AECD #1 to #5: Engine Run Time for AECD #1:Timer 2, Not Available	4294967295
Engine Run Time for AECD #1 to #5: Engine Run Time for AECD #2: ATD HC Clean up, Timer 2: Not Available	4294967295
Engine Run Time for AECD #1 to #5: Engine Run Time for AECD #3:Cold DEF Tank,Timer 2: Not Available	4294967295
Engine Run Time for AECD #1 to #5: Engine Run Time for AECD #4:Cold Exhaust Gas, Timer 2: Not Available	4294967295
Engine Run Time for AECD #1 to #5: Engine Run Time for AECD #5:Timer 1: Not Available	4294967295
Engine Run Time for AECD #1 to #5: Engine Run Time for AECD #5: Timer 2, Not Available	4294967295
Engine Run Time for AECD #1 to #5: Support of Run Time for AECD #1 to #5	14
Exhaust Regulation or Type Approval Number: sys_cal_erotan1_1m	
Fuelmap Description: sys_dataset_description_r0_1m	A_557000_1123_XXOX_S044
Get Number of Transponder Code: Nr. of Tansport Code	00
Get Transponder Code: TranspCode	DFA8572077
Hardware Supplier: Information	Continental
Hardware Version: HW Patch level	00
Hardware Version: HW Week	26

Hardware Version: HW Year	0C
Historical Interrogation Record: DTC Read Counter	0C
Historical Interrogation Record: Odometer Value LSB	D4
Historical Interrogation Record: Odometer Value MSB	0F
Mercedes Truck Software: EDU Software Part Number Firmware	----------
Mercedes Truck Software: EDU Software Part Number Fuelmap	----------
Monitor Performance Tracking: Boost Pressure Monitor Completion Condition Counts	0
Monitor Performance Tracking: Boost Pressure Monitor Conditions Encountered Counts	0
Monitor Performance Tracking: EGR and/or VVT Monitor Completion Condition Counts	0
Monitor Performance Tracking: EGR and/or VVT Monitor Conditions Encountered Counts	0
Monitor Performance Tracking: Exhaust Gas Sensor Monitor Completion Condition Counts	768
Monitor Performance Tracking: Exhaust Gas Sensor Monitor Conditions Encountered Counts	0
Monitor Performance Tracking: Ignition Cycle Counter	10244
Monitor Performance Tracking: NMHC Catalyst Monitor Completion Condition Counts	54785
Monitor Performance Tracking: NMHC Catalyst Monitor Conditions Encountered Counts	17664
Monitor Performance Tracking: NOx Adsorber Monitor Completion Condition Counts	10240
Monitor Performance Tracking: NOx Adsorber Monitor Conditions Encountered Counts	0
Monitor Performance Tracking: NOx Catalyst Monitor Completion Condition Counts	60416
Monitor Performance Tracking: NOx Catalyst Monitor Conditions Encountered Counts	64515
Monitor Performance Tracking: OBD Monitoring Conditions Encountered Counts (General Denominator)	4099
Monitor Performance Tracking: PM Filter Monitor Completion Condition Counts	1
Monitor Performance Tracking: PM Filter Monitor Conditions Encountered Counts	26369
OBD Compliance: obd_compliance	Heavy Duty/On-Board Diagnostics (CARB CCR 1971.1)
Read0103 V N Odometer: VIN odometer	FA
Read0104 V N Odometer Limit: V N odometer limit	FA
Read012E Related SW Version: SW Version Information - Low Byte	00
Read012E Related SW Version: SW Version Information - Major Byte	00
Read012E Related SW Version: SW Version Information - Middle Byte	00
Read012F Production date: Calender week	40
Read012F Production date: Calender year	14
Read0134 PM sensor Cal D and CVN: PM Sensor CVN	Request out of range
Read0134 PM sensor Cal D and CVN: PM Sensor Cal ID	Request out of range
Read0134 PM sensor Cal D and CVN: reserved	Request out of range
Read0135 PM sensor Identification Information: Delimiter_a	Request out of range
Read0135 PM sensor Identification Information: Delimiter_b	Request out of range
Read0135 PM sensor Identification Information: Delimiter_c	Request out of range
Read0135 PM sensor Identification Information: Delimiter_d	Request out of range
Read0135 PM sensor Identification Information: ECU Part Number Char	Request out of range
Read0135 PM sensor Identification Information: ECU Serial Number	Request out of range
Read0135 PM sensor Identification Information: ECU Voltage Type	Request out of range
Read0135 PM sensor Identification Information: Reserved	Request out of range
Read0136 UQS sensor Cal D and CVN: UQS Sensor CVN	Request out of range
Read0136 UQS sensor Cal D and CVN:	Request out of range

UQS Sensor Cal ID	
Read0136 UQS sensor Cal D and CVN: reserved	Request out of range
Read0137 NOx sensors Cal D and CVN: NOx 1 CVN	Request out of range
Read0137 NOx sensors Cal D and CVN: NOx 1 Cal D	Request out of range
Read0137 NOx sensors Cal D and CVN: NOx 2 CVN	Request out of range
Read0137 NOx sensors Cal D and CVN: NOx 2 Cal D	Request out of range
Read Configuration Fingerprint: Configuration Block No.1	01
Read Configuration Fingerprint: Configuration Block No 2	02
Read Configuration Fingerprint: Configuration Block No 3	03
Read Configuration Fingerprint: Configuration Block No.4	04
Read Configuration Fingerprint: Programming Date1 (Day)	255
Read Configuration Fingerprint: Programming Date1 (Month)	255
Read Configuration Fingerprint: Programming Date1 (Year)	255
Read Configuration Fingerprint: Programming Date2 (Day)	255
Read Configuration Fingerprint: Programming Date2 (Month)	255
Read Configuration Fingerprint: Programming Date2 (Year)	255
Read Configuration Fingerprint: Programming Date3 (Day)	255
Read Configuration Fingerprint: Programming Date3(Month)	255
Read Configuration Fingerprint: Programming Date3 (Year)	255
Read Configuration Fingerprint: Programming Date4 (Day)	255
Read Configuration Fingerprint: Programming Date4(Month)	255
Read Configuration Fingerprint: Programming Date4 (Year)	255
Read Configuration Fingerprint: Supplier Identification1	FFFF
Read Configuration Fingerprint: Supplier Identification2	FFFF
Read Configuration Fingerprint: Supplier Identification3	FFFF
Read Configuration Fingerprint: Supplier Identification4	FFFF
Read Configuration Fingerprint: Tool Serial Number1	FFFFFFFF
Read Configuration Fingerprint: Tool Serial Number2	FFFFFFFF
Read Configuration Fingerprint: Tool Serial Number3	FFFFFFFF
Read Configuration Fingerprint: Tool Serial Number4	FFFFFFFF
Read DTC that caused a Freeze Frame storage: DTCHighByte / SPN Low Byte	0
Read DTC that caused a Freeze Frame storage: DTCLowByte / SPN High Byte	0
Read DTC that caused a Freeze Frame storage: DTCMiddleByte / SPN Mid Byte	0
Read I/O Control Fingerprint: Diagnostic Tool Serial Number #1	DDA37B92
Read I/O Control Fingerprint: Diagnostic Tool Serial Number #2	FFFFFFFF
Read I/O Control Fingerprint: Diagnostic Tool Serial Number #3	FFFFFFFF
Read I/O Control Fingerprint: Diagnostic Tool Serial Number #4	FFFFFFFF
Read I/O Control Fingerprint: Diagnostic Tool Serial Number #5	FFFFFFFF
Read I/O Control Fingerprint: Programming date ? Day #1	09
Read I/O Control Fingerprint: Programming date ? Day #2	FF
Read I/O Control Fingerprint: Programming date ? Day #3	FF
Read I/O Control Fingerprint: Programming date ? Day #4	FF
Read I/O Control Fingerprint: Programming date ? Day #5	FF
Read I/O Control Fingerprint: Programming date ? Month #1	03
Read I/O Control Fingerprint: Programming date ? Month #2	FF
Read I/O Control Fingerprint: Programming date ? Month #3	FF
Read I/O Control Fingerprint: Programming date ? Month #4	FF
Read I/O Control Fingerprint:	

Programming date ? Month #5	FF
Read I/O Control Fingerprint: Programming date ? Year #1	11
Read I/O Control Fingerprint: Programming date ? Year #2	FF
Read I/O Control Fingerprint: Programming date ? Year #3	FF
Read I/O Control Fingerprint: Programming date ? Year #4	FF
Read I/O Control Fingerprint: Programming date ? Year #5	FF
Read I/O Control Fingerprint: Routine I/O Group #1	1
Read I/O Control Fingerprint: Routine I/O Group #2	2
Read I/O Control Fingerprint: Routine I/O Group #3	3
Read I/O Control Fingerprint: Routine I/O Group #4	4
Read I/O Control Fingerprint: Routine I/O Group #5	5
Read I/O Control Fingerprint: Supplier Identification #1	MB
Read I/O Control Fingerprint: Supplier Identification #2	Unidentified
Read I/O Control Fingerprint: Supplier Identification #3	Unidentified
Read I/O Control Fingerprint: Supplier Identification #4	Unidentified
Read I/O Control Fingerprint: Supplier Identification #5	Unidentified
Read Nox control information service: EU6: Dummy counter	0
Read Nox control information service: EU6: Failure Monitoring System counter	0
Read Nox control information service: EU6: Impeded EGR Valve counter	0
Read Nox control information service: EU6: Incorrect Reagent Consumption counter	0
Read Nox control information service: EU6: Incorrect reagent quality counter	0
Read Nox control information service: EU6: Interruption of reagent dosing counter	0
Read Nox control information service: EU6: Low reagent level counter	0
Read Nox control information service: low inducement system status	non-active
Read Nox control information service: number of engine hours since "Nox control information" was last cleared	64255
Read Nox control information service: severe inducement syste status	non-active
Read Nox control information service: warm-up cycles since "Nox control information" was last cleared	250
Read Nox control information service: warning system status	not active
Read Serial Number: Aftertreatmentbox Serial Number	
Read Software Fingerprint: Hardware Mismatch	no mismatch
Read Software Fingerprint: Hardware Mismatch EDU	mismatch occurred
Read Software Fingerprint: Hardware Mismatch EDU Fuelmap	mismatch occurred
Read Software Fingerprint: Hardware Mismatch Fuelmap	no mismatch
Read Software Fingerprint: Logical Block	false
Read Software Fingerprint: Logical Block EDU	false
Read Software Fingerprint: Logical Block EDU Fuelmap	false
Read Software Fingerprint: Logical Block Fuelmap	false
Read Software Fingerprint: Programming Date (Day) - EDU Firmware	255
Read Software Fingerprint: Programming Date (Day) - EDU Fuelmap	255
Read Software Fingerprint: Programming Date (Day) - Firmware	30
Read Software Fingerprint: Programming Date (Day) - Fuelmap	30
Read Software Fingerprint: Programming Date (Month) - EDU Firmware	255
Read Software Fingerprint: Programming Date (Month) - EDU Fuelmap	255
Read Software Fingerprint: Programming Date (Month) - Firmware	11
Read Software Fingerprint: Programming Date (Month) - Fuelmap	11
Read Software Fingerprint: Programming Date (Year) - EDU Firmware	255

Read Software Fingerprint: Programming Date (Year) - EDU Fuelmap	255
Read Software Fingerprint: Programming Date (Year) - Firmware	15
Read Software Fingerprint: Programming Date (Year) - Fuelmap	15
Read Software Fingerprint: Software Mismatch	no mismatch
Read Software Fingerprint: Software Mismatch EDU	mismatch occurred
Read Software Fingerprint: Software Mismatch EDU Fuelmap	mismatch occurred
Read Software Fingerprint: Software Mismatch Fuelmap	no mismatch
Read Software Fingerprint: Software Programmed and Valid	Ok
Read Software Fingerprint: Software Programmed and Valid EDU	Ok
Read Software Fingerprint: Software Programmed and Valid EDU Fuelmap	Ok
Read Software Fingerprint: Software Programmed and Valid Fuelmap	Ok
Read Software Fingerprint: Supplier Identification - EDU Firmware	EFFF
Read Software Fingerprint: Supplier Identification - EDU Fuelmap	EFFF
Read Software Fingerprint: Supplier Identification - Firmware	009E
Read Software Fingerprint: Supplier Identification - Fuelmap	009E
Read Software Fingerprint: Tool Serial Number - EDU Firmware	FFFFFFFF
Read Software Fingerprint: Tool Serial Number - EDU Fuelmap	FFFFFFFF
Read Software Fingerprint: Tool Serial Number - Firmware	C7522763
Read Software Fingerprint: Tool Serial Number - Fuelmap	C7522763
Read VIN Original: VIN	YE2XC81B8G3[redacted]
Software Supplier: EDU Firmware Supplier	ACM EVO and EDU are not Connected Supplier
Software Supplier: EDU Fuelmap Supplier	ACM EVO and EDU are not Connected Supplier
Software Supplier: Firmware Supplier	Continental Automotive Systems
Software Supplier: Fuelmap Supplier	*
Software Version: ACM Fuelmap - Jahr	255
Software Version: ACM Fuelmap Patch Level	255
Software Version: ACM Fuelmap - Week	255
Software Version: EDU Firmware Patch Level	254
Software Version: EDU Firmware - Week	254
Software Version: EDU Firmware - Year	254
Software Version: EDU Fuelmap - Jahr	254
Software Version: EDU Fuelmap Patch Level	254
Software Version: EDU Fuelmap - Week	254
Software Version: SW Patch Level	0
Software Version: SW - Week	14
Software Version: SW - Year	14
System Supplier ECU HW Version Number: Hardware Type	50
System Supplier ECU HW Version Number: Patch Level	128
System Supplier ECU HW Version Number: Sample Number	68
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #1	162
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #2	199
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #3	66
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #4	52
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #5	32
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #6	16
System Supplier ECU Hardware Part Number: SAP Part Number-Byte #7 (just High Nibble)	1
System Supplier ECU Hardware Part Number: reserved 1	0
System Supplier ECU Hardware Part Number: reserved 2	0
System Supplier ECU Hardware Part Number: reserved 3	0
System Supplier ECU Hardware Part Number: reserved 4	0
System Supplier ECU Hardware Part Number: reserved 5	0
System Supplier ECU Hardware Part Number: reserved 6	0

System Supplier ECU Software Part Number: ACM Part Number Firmware	0104486954001
System Supplier ECU Software Part Number: ACM Part Number Fuelmap	0164481854003
System Supplier ECU Software Part Number: EDU DS Part number	----------
System Supplier ECU Software Part Number: EDU SW Part number	----------
System Supplier ECU Software Version Number: ACM FBL_PATCH_NUMBER	3
System Supplier ECU Software Version Number: ACM FBL_RELEASE_NUMBER	4
System Supplier ECU Software Version Number: ACM FBL_SUBRELEASE_NUMBER	0
System Supplier ECU Software Version Number: EDU FBL SW VERSION byte1	255
System Supplier ECU Software Version Number: EDU FBL SW VERSION byte2	255
System Supplier ECU Software Version Number: EDU FBL SW VERSION byte3	255
System Supplier ECU Software Version Number: EDU FW SW VERSION byte1	255
System Supplier ECU Software Version Number: EDU FW SW VERSION byte2	255
System Supplier ECU Software Version Number: EDU FW SW VERSION byte3	255
Read DM29 Information: All Pending DTCs	0
Read DM29 Information: Emission related Pending DTCs	0
Read DM29 Information: No_of_DTCs_Previously_DTCs_MIL_ON	0
Read DM29 Information: Pending DTCs MIL-ON	0
Read DM29 Information: Permanent DTCs	0
Read MU individual rates DataFrame1: Assigned RBM group number 1	0
Read MU individual rates DataFrame1: Assigned RBM group number 10	0
Read MU individual rates DataFrame1: Assigned RBM group number 11	0
Read MU individual rates DataFrame1: Assigned RBM group number 12	0
Read MU individual rates DataFrame1: Assigned RBM group number 13	0
Read MU individual rates DataFrame1: Assigned RBM group number 14	0
Read MU individual rates DataFrame1: Assigned RBM group number 15	0
Read MU individual rates DataFrame1: Assigned RBM group number 16	0
Read MU individual rates DataFrame1: Assigned RBM group number 17	0
Read MU individual rates DataFrame1: Assigned RBM group number 18	0
Read MU individual rates DataFrame1: Assigned RBM group number 19	0
Read MU individual rates DataFrame1: Assigned RBM group number 2	0
Read MU individual rates DataFrame1: Assigned RBM group number 20	0
Read MU individual rates DataFrame1: Assigned RBM group number 21	0
Read MU individual rates DataFrame1: Assigned RBM group number 22	0
Read MU individual rates DataFrame1: Assigned RBM group number 23	0
Read MU individual rates DataFrame1: Assigned RBM group number 24	0
Read MU individual rates DataFrame1: Assigned RBM group number 25	0
Read MU individual rates DataFrame1: Assigned RBM group number 26	0
Read MU individual rates DataFrame1: Assigned RBM group number 27	0
Read MU individual rates DataFrame1: Assigned RBM group number 28	0
Read MU individual rates DataFrame1: Assigned RBM group number 29	0
Read MU individual rates DataFrame1: Assigned RBM group number 3	0
Read MU individual rates DataFrame1: Assigned RBM group number 30	0
Read MU individual rates DataFrame1: Assigned RBM group number 31	0
Read MU individual rates DataFrame1: Assigned RBM group number 32	0
Read MU individual rates DataFrame1: Assigned RBM group number 33	0
Read MU individual rates DataFrame1: Assigned RBM group number 34	0

Read MU individual rates DataFrame1: Assigned RBM group number 35	0
Read MU individual rates DataFrame1: Assigned RBM group number 36	0
Read MU individual rates DataFrame1: Assigned RBM group number 37	1
Read MU individual rates DataFrame1: Assigned RBM group number 38	2
Read MU individual rates DataFrame1: Assigned RBM group number 39	2
Read MU individual rates DataFrame1: Assigned RBM group number 4	0
Read MU individual rates DataFrame1: Assigned RBM group number 40	5
Read MU individual rates DataFrame1: Assigned RBM group number 41	5
Read MU individual rates DataFrame1: Assigned RBM group number 42	255
Read MU individual rates DataFrame1: Assigned RBM group number 43	255
Read MU individual rates DataFrame1: Assigned RBM group number 44	255
Read MU individual rates DataFrame1: Assigned RBM group number 45	255
Read MU individual rates DataFrame1: Assigned RBM group number 46	255
Read MU individual rates DataFrame1: Assigned RBM group number 47	255
Read MU individual rates DataFrame1: Assigned RBM group number 48	255
Read MU individual rates DataFrame1: Assigned RBM group number 49	255
Read MU individual rates DataFrame1: Assigned RBM group number 5	0
Read MU individual rates DataFrame1: Assigned RBM group number 50	255
Read MU individual rates DataFrame1: Assigned RBM group number 6	0
Read MU individual rates DataFrame1: Assigned RBM group number 7	0
Read MU individual rates DataFrame1: Assigned RBM group number 8	0
Read MU individual rates DataFrame1: Assigned RBM group number 9	0
Read MU individual rates DataFrame1: Denominator value 1	808
Read MU individual rates DataFrame1: Denominator value 10	185
Read MU individual rates DataFrame1: Denominator value 11	180
Read MU individual rates DataFrame1: Denominator value 12	808
Read MU individual rates DataFrame1: Denominator value 13	808
Read MU individual rates DataFrame1: Denominator value 14	808
Read MU individual rates DataFrame1: Denominator value 15	808
Read MU individual rates DataFrame1: Denominator value 16	808
Read MU individual rates DataFrame1: Denominator value 17	808
Read MU individual rates DataFrame1: Denominator value 18	808
Read MU individual rates DataFrame1: Denominator value 19	808
Read MU individual rates DataFrame1: Denominator value 2	808
Read MU individual rates DataFrame1: Denominator value 20	808
Read MU individual rates DataFrame1: Denominator value 21	806
Read MU individual rates DataFrame1: Denominator value 22	784
Read MU individual rates DataFrame1: Denominator value 23	169
Read MU individual rates DataFrame1: Denominator value 24	169
Read MU individual rates DataFrame1: Denominator value 25	0
Read MU individual rates DataFrame1: Denominator value 26	0
Read MU individual rates DataFrame1: Denominator value 27	0
Read MU individual rates DataFrame1: Denominator value 28	153
Read MU individual rates DataFrame1: Denominator value 29	808
Read MU individual rates DataFrame1: Denominator value 3	808
Read MU individual rates DataFrame1: Denominator value 30	808
Read MU individual rates DataFrame1: Denominator value 31	808

Read MU individual rates DataFrame1: Denominator value 32	808
Read MU individual rates DataFrame1: Denominator value 33	0
Read MU individual rates DataFrame1: Denominator value 34	0
Read MU individual rates DataFrame1: Denominator value 35	0
Read MU individual rates DataFrame1: Denominator value 36	808
Read MU individual rates DataFrame1: Denominator value 37	236
Read MU individual rates DataFrame1: Denominator value 38	808
Read MU individual rates DataFrame1: Denominator value 39	808
Read MU individual rates DataFrame1: Denominator value 4	808
Read MU individual rates DataFrame1: Denominator value 40	259
Read MU individual rates DataFrame1: Denominator value 41	0
Read MU individual rates DataFrame1: Denominator value 42	65535
Read MU individual rates DataFrame1: Denominator value 43	65535
Read MU individual rates DataFrame1: Denominator value 44	65535
Read MU individual rates DataFrame1: Denominator value 45	65535
Read MU individual rates DataFrame1: Denominator value 46	65535
Read MU individual rates DataFrame1: Denominator value 47	65535
Read MU individual rates DataFrame1: Denominator value 48	65535
Read MU individual rates DataFrame1: Denominator value 49	65535
Read MU individual rates DataFrame1: Denominator value 5	808
Read MU individual rates DataFrame1: Denominator value 50	65535
Read MU individual rates DataFrame1: Denominator value 6	0
Read MU individual rates DataFrame1: Denominator value 7	808
Read MU individual rates DataFrame1: Denominator value 8	808
Read MU individual rates DataFrame1: Denominator value 9	185
Read MU individual rates DataFrame1: Number of following MU rates	41
Read MU individual rates DataFrame1: Numerator value 1	1148
Read MU individual rates DataFrame1: Numerator value 10	35
Read MU individual rates DataFrame1: Numerator value 11	1678
Read MU individual rates DataFrame1: Numerator value 12	928
Read MU individual rates DataFrame1: Numerator value 13	0
Read MU individual rates DataFrame1: Numerator value 14	249
Read MU individual rates DataFrame1: Numerator value 15	1
Read MU individual rates DataFrame1: Numerator value 16	156
Read MU individual rates DataFrame1: Numerator value 17	725
Read MU individual rates DataFrame1: Numerator value 18	799
Read MU individual rates DataFrame1: Numerator value 19	16
Read MU individual rates DataFrame1: Numerator value 2	1
Read MU individual rates DataFrame1: Numerator value 20	35
Read MU individual rates DataFrame1: Numerator value 21	983
Read MU individual rates DataFrame1: Numerator value 22	729
Read MU individual rates DataFrame1: Numerator value 23	0
Read MU individual rates DataFrame1: Numerator value 24	93
Read MU individual rates DataFrame1: Numerator value 25	0
Read MU individual rates DataFrame1: Numerator value 26	0
Read MU individual rates DataFrame1: Numerator value 27	0
Read MU individual rates DataFrame1: Numerator value 28	216

Read MU individual rates DataFrame1: Numerator value 29	1352
Read MU individual rates DataFrame1: Numerator value 3	1
Read MU individual rates DataFrame1: Numerator value 30	1272
Read MU individual rates DataFrame1: Numerator value 31	1460
Read MU individual rates DataFrame1: Numerator value 32	1348
Read MU individual rates DataFrame1: Numerator value 33	0
Read MU individual rates DataFrame1: Numerator value 34	0
Read MU individual rates DataFrame1: Numerator value 35	0
Read MU individual rates DataFrame1: Numerator value 36	1163
Read MU individual rates DataFrame1: Numerator value 37	325
Read MU individual rates DataFrame1: Numerator value 38	252
Read MU individual rates DataFrame1: Numerator value 39	252
Read MU individual rates DataFrame1: Numerator value 4	10
Read MU individual rates DataFrame1: Numerator value 40	359
Read MU individual rates DataFrame1: Numerator value 41	0
Read MU individual rates DataFrame1: Numerator value 42	65535
Read MU individual rates DataFrame1: Numerator value 43	65535
Read MU individual rates DataFrame1: Numerator value 44	65535
Read MU individual rates DataFrame1: Numerator value 45	65535
Read MU individual rates DataFrame1: Numerator value 46	65535
Read MU individual rates DataFrame1: Numerator value 47	65535
Read MU individual rates DataFrame1: Numerator value 48	65535
Read MU individual rates DataFrame1: Numerator value 49	65535
Read MU individual rates DataFrame1: Numerator value 5	10
Read MU individual rates DataFrame1: Numerator value 50	65535
Read MU individual rates DataFrame1: Numerator value 6	0
Read MU individual rates DataFrame1: Numerator value 7	294
Read MU individual rates DataFrame1: Numerator value 8	294
Read MU individual rates DataFrame1: Numerator value 9	342
Read MU individual rates DataFrame1: SPN High Byte + FMI 1	15
Read MU individual rates DataFrame1: SPN High Byte + FMI 10	01
Read MU individual rates DataFrame1: SPN High Byte + FMI 11	1F
Read MU individual rates DataFrame1: SPN High Byte + FMI 12	00
Read MU individual rates DataFrame1: SPN High Byte + FMI 13	01
Read MU individual rates DataFrame1: SPN High Byte + FMI 14	02
Read MU individual rates DataFrame1: SPN High Byte + FMI 15	14
Read MU individual rates DataFrame1: SPN High Byte + FMI 16	0E
Read MU individual rates DataFrame1: SPN High Byte + FMI 17	02
Read MU individual rates DataFrame1: SPN High Byte + FMI 18	14
Read MU individual rates DataFrame1: SPN High Byte + FMI 19	15
Read MU individual rates DataFrame1: SPN High Byte + FMI 2	14
Read MU individual rates DataFrame1: SPN High Byte + FMI 20	14
Read MU individual rates DataFrame1: SPN High Byte + FMI 21	07
Read MU individual rates DataFrame1: SPN High Byte + FMI 22	02
Read MU individual rates DataFrame1: SPN High Byte + FMI 23	1F
Read MU individual rates DataFrame1: SPN High Byte + FMI 24	1F
Read MU individual rates DataFrame1: SPN High Byte + FMI 25	10

Read MU individual rates DataFrame1: SPN High Byte + FMI 26	12
Read MU individual rates DataFrame1: SPN High Byte + FMI 27	01
Read MU individual rates DataFrame1: SPN High Byte + FMI 28	0A
Read MU individual rates DataFrame1: SPN High Byte + FMI 29	02
Read MU individual rates DataFrame1: SPN High Byte + FMI 3	14
Read MU individual rates DataFrame1: SPN High Byte + FMI 30	07
Read MU individual rates DataFrame1: SPN High Byte + FMI 31	00
Read MU individual rates DataFrame1: SPN High Byte + FMI 32	01
Read MU individual rates DataFrame1: SPN High Byte + FMI 33	02
Read MU individual rates DataFrame1: SPN High Byte + FMI 34	EE
Read MU individual rates DataFrame1: SPN High Byte + FMI 35	10
Read MU individual rates DataFrame1: SPN High Byte + FMI 36	13
Read MU individual rates DataFrame1: SPN High Byte + FMI 37	12
Read MU individual rates DataFrame1: SPN High Byte + FMI 38	12
Read MU individual rates DataFrame1: SPN High Byte + FMI 39	01
Read MU individual rates DataFrame1: SPN High Byte + FMI 4	14
Read MU individual rates DataFrame1: SPN High Byte + FMI 40	12
Read MU individual rates DataFrame1: SPN High Byte + FMI 41	EE
Read MU individual rates DataFrame1: SPN High Byte + FMI 42	FF
Read MU individual rates DataFrame1: SPN High Byte + FMI 43	FF
Read MU individual rates DataFrame1: SPN High Byte + FMI 44	FF
Read MU individual rates DataFrame1: SPN High Byte + FMI 45	FF
Read MU individual rates DataFrame1: SPN High Byte + FMI 46	FF
Read MU individual rates DataFrame1: SPN High Byte + FMI 47	FF
Read MU individual rates DataFrame1: SPN High Byte + FMI 48	FF
Read MU individual rates DataFrame1: SPN High Byte + FMI 49	FF
Read MU individual rates DataFrame1: SPN High Byte + FMI 5	14
Read MU individual rates DataFrame1: SPN High Byte + FMI 50	FF
Read MU individual rates DataFrame1: SPN High Byte + FMI 6	1F
Read MU individual rates DataFrame1: SPN High Byte + FMI 7	02
Read MU individual rates DataFrame1: SPN High Byte + FMI 8	02
Read MU individual rates DataFrame1: SPN High Byte + FMI 9	00
Read MU individual rates DataFrame1: SPN Low Byte 1	AE
Read MU individual rates DataFrame1: SPN Low Byte 10	E4
Read MU individual rates DataFrame1: SPN Low Byte 11	15
Read MU individual rates DataFrame1: SPN Low Byte 12	23
Read MU individual rates DataFrame1: SPN Low Byte 13	23
Read MU individual rates DataFrame1: SPN Low Byte 14	24
Read MU individual rates DataFrame1: SPN Low Byte 15	AE
Read MU individual rates DataFrame1: SPN Low Byte 16	B2
Read MU individual rates DataFrame1: SPN Low Byte 17	1A
Read MU individual rates DataFrame1: SPN Low Byte 18	B3
Read MU individual rates DataFrame1: SPN Low Byte 19	9A
Read MU individual rates DataFrame1: SPN Low Byte 2	AA
Read MU individual rates DataFrame1: SPN Low Byte 20	9A
Read MU individual rates DataFrame1: SPN Low Byte 21	97
Read MU individual rates DataFrame1: SPN Low Byte 22	A6

Read MU individual rates DataFrame1: SPN Low Byte 23	7F
Read MU individual rates DataFrame1: SPN Low Byte 24	81
Read MU individual rates DataFrame1: SPN Low Byte 25	EB
Read MU individual rates DataFrame1: SPN Low Byte 26	EB
Read MU individual rates DataFrame1: SPN Low Byte 27	BC
Read MU individual rates DataFrame1: SPN Low Byte 28	D7
Read MU individual rates DataFrame1: SPN Low Byte 29	09
Read MU individual rates DataFrame1: SPN Low Byte 3	B2
Read MU individual rates DataFrame1: SPN Low Byte 30	3B
Read MU individual rates DataFrame1: SPN Low Byte 31	16
Read MU individual rates DataFrame1: SPN Low Byte 32	16
Read MU individual rates DataFrame1: SPN Low Byte 33	16
Read MU individual rates DataFrame1: SPN Low Byte 34	9F
Read MU individual rates DataFrame1: SPN Low Byte 35	BC
Read MU individual rates DataFrame1: SPN Low Byte 36	16
Read MU individual rates DataFrame1: SPN Low Byte 37	E4
Read MU individual rates DataFrame1: SPN Low Byte 38	0C
Read MU individual rates DataFrame1: SPN Low Byte 39	0C
Read MU individual rates DataFrame1: SPN Low Byte 4	08
Read MU individual rates DataFrame1: SPN Low Byte 40	60
Read MU individual rates DataFrame1: SPN Low Byte 41	9D
Read MU individual rates DataFrame1: SPN Low Byte 42	FF
Read MU individual rates DataFrame1: SPN Low Byte 43	FF
Read MU individual rates DataFrame1: SPN Low Byte 44	FF
Read MU individual rates DataFrame1: SPN Low Byte 45	FF
Read MU individual rates DataFrame1: SPN Low Byte 46	FF
Read MU individual rates DataFrame1: SPN Low Byte 47	FF
Read MU individual rates DataFrame1: SPN Low Byte 48	FF
Read MU individual rates DataFrame1: SPN Low Byte 49	FF
Read MU individual rates DataFrame1: SPN Low Byte 5	0B
Read MU individual rates DataFrame1: SPN Low Byte 50	FF
Read MU individual rates DataFrame1: SPN Low Byte 6	BB
Read MU individual rates DataFrame1: SPN Low Byte 7	F0
Read MU individual rates DataFrame1: SPN Low Byte 8	F1
Read MU individual rates DataFrame1: SPN Low Byte 9	E4
Read MU individual rates DataFrame1: SPN Mid Byte 1	0C
Read MU individual rates DataFrame1: SPN Mid Byte 10	0D
Read MU individual rates DataFrame1: SPN Mid Byte 11	15
Read MU individual rates DataFrame1: SPN Mid Byte 12	0D
Read MU individual rates DataFrame1: SPN Mid Byte 13	0D
Read MU individual rates DataFrame1: SPN Mid Byte 14	0D
Read MU individual rates DataFrame1: SPN Mid Byte 15	0C
Read MU individual rates DataFrame1: SPN Mid Byte 16	14
Read MU individual rates DataFrame1: SPN Mid Byte 17	0E
Read MU individual rates DataFrame1: SPN Mid Byte 18	0C
Read MU individual rates DataFrame1: SPN Mid Byte 19	0C
Read MU individual rates DataFrame1: SPN Mid Byte 2	0C

Read MU individual rates DataFrame1: SPN Mid Byte 20	0C
Read MU individual rates DataFrame1: SPN Mid Byte 21	0C
Read MU individual rates DataFrame1: SPN Mid Byte 22	0C
Read MU individual rates DataFrame1: SPN Mid Byte 23	0E
Read MU individual rates DataFrame1: SPN Mid Byte 24	0E
Read MU individual rates DataFrame1: SPN Mid Byte 25	10
Read MU individual rates DataFrame1: SPN Mid Byte 26	10
Read MU individual rates DataFrame1: SPN Mid Byte 27	0D
Read MU individual rates DataFrame1: SPN Mid Byte 28	0B
Read MU individual rates DataFrame1: SPN Mid Byte 29	04
Read MU individual rates DataFrame1: SPN Mid Byte 3	0C
Read MU individual rates DataFrame1: SPN Mid Byte 30	15
Read MU individual rates DataFrame1: SPN Mid Byte 31	11
Read MU individual rates DataFrame1: SPN Mid Byte 32	11
Read MU individual rates DataFrame1: SPN Mid Byte 33	11
Read MU individual rates DataFrame1: SPN Mid Byte 34	F0
Read MU individual rates DataFrame1: SPN Mid Byte 35	0D
Read MU individual rates DataFrame1: SPN Mid Byte 36	11
Read MU individual rates DataFrame1: SPN Mid Byte 37	0D
Read MU individual rates DataFrame1: SPN Mid Byte 38	11
Read MU individual rates DataFrame1: SPN Mid Byte 39	11
Read MU individual rates DataFrame1: SPN Mid Byte 4	11
Read MU individual rates DataFrame1: SPN Mid Byte 40	0F
Read MU individual rates DataFrame1: SPN Mid Byte 41	F0
Read MU individual rates DataFrame1: SPN Mid Byte 42	FF
Read MU individual rates DataFrame1: SPN Mid Byte 43	FF
Read MU individual rates DataFrame1: SPN Mid Byte 44	FF
Read MU individual rates DataFrame1: SPN Mid Byte 45	FF
Read MU individual rates DataFrame1: SPN Mid Byte 46	FF
Read MU individual rates DataFrame1: SPN Mid Byte 47	FF
Read MU individual rates DataFrame1: SPN Mid Byte 48	FF
Read MU individual rates DataFrame1: SPN Mid Byte 49	FF
Read MU individual rates DataFrame1: SPN Mid Byte 5	11
Read MU individual rates DataFrame1: SPN Mid Byte 50	FF
Read MU individual rates DataFrame1: SPN Mid Byte 6	12
Read MU individual rates DataFrame1: SPN Mid Byte 7	0B
Read MU individual rates DataFrame1: SPN Mid Byte 8	0B
Read MU individual rates DataFrame1: SPN Mid Byte 9	0D
Read MU individual rates DataFrame2: Assigned RBM group number 1	255
Read MU individual rates DataFrame2: Assigned RBM group number 10	255
Read MU individual rates DataFrame2: Assigned RBM group number 11	255
Read MU individual rates DataFrame2: Assigned RBM group number 12	255
Read MU individual rates DataFrame2: Assigned RBM group number 13	255
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Read MU individual rates DataFrame2: Assigned RBM group number 16	255
Read MU individual rates DataFrame2: Assigned RBM group number 17	255

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Read MU individual rates DataFrame2: Assigned RBM group number 19	255
Read MU individual rates DataFrame2: Assigned RBM group number 2	255
Read MU individual rates DataFrame2: Assigned RBM group number 20	255
Read MU individual rates DataFrame2: Assigned RBM group number 21	255
Read MU individual rates DataFrame2: Assigned RBM group number 22	255
Read MU individual rates DataFrame2: Assigned RBM group number 23	255
Read MU individual rates DataFrame2: Assigned RBM group number 24	255
Read MU individual rates DataFrame2: Assigned RBM group number 25	255
Read MU individual rates DataFrame2: Assigned RBM group number 26	255
Read MU individual rates DataFrame2: Assigned RBM group number 27	255
Read MU individual rates DataFrame2: Assigned RBM group number 28	255
Read MU individual rates DataFrame2: Assigned RBM group number 29	255
Read MU individual rates DataFrame2: Assigned RBM group number 3	255
Read MU individual rates DataFrame2: Assigned RBM group number 30	255
Read MU individual rates DataFrame2: Assigned RBM group number 31	255
Read MU individual rates DataFrame2: Assigned RBM group number 32	255
Read MU individual rates DataFrame2: Assigned RBM group number 33	255
Read MU individual rates DataFrame2: Assigned RBM group number 34	255
Read MU individual rates DataFrame2: Assigned RBM group number 35	255
Read MU individual rates DataFrame2: Assigned RBM group number 36	255
Read MU individual rates DataFrame2: Assigned RBM group number 37	255
Read MU individual rates DataFrame2: Assigned RBM group number 38	255
Read MU individual rates DataFrame2: Assigned RBM group number 39	255
Read MU individual rates DataFrame2: Assigned RBM group number 4	255
Read MU individual rates DataFrame2: Assigned RBM group number 40	255
Read MU individual rates DataFrame2: Assigned RBM group number 41	255
Read MU individual rates DataFrame2: Assigned RBM group number 42	255
Read MU individual rates DataFrame2: Assigned RBM group number 43	255
Read MU individual rates DataFrame2: Assigned RBM group number 44	255
Read MU individual rates DataFrame2: Assigned RBM group number 45	255
Read MU individual rates DataFrame2: Assigned RBM group number 46	255
Read MU individual rates DataFrame2: Assigned RBM group number 47	255
Read MU individual rates DataFrame2: Assigned RBM group number 48	255
Read MU individual rates DataFrame2: Assigned RBM group number 49	255
Read MU individual rates DataFrame2: Assigned RBM group number 5	255
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Read MU individual rates DataFrame2: Assigned RBM group number 6	255
Read MU individual rates DataFrame2: Assigned RBM group number 7	255
Read MU individual rates DataFrame2: Assigned RBM group number 8	255
Read MU individual rates DataFrame2: Assigned RBM group number 9	255
Read MU individual rates DataFrame2: Denominator value 1	65535
Read MU individual rates DataFrame2: Denominator value 10	65535
Read MU individual rates DataFrame2: Denominator value 11	65535
Read MU individual rates DataFrame2: Denominator value 12	65535
Read MU individual rates DataFrame2: Denominator value 13	65535
Read MU individual rates DataFrame2: Denominator value 14	65535

Read MU individual rates DataFrame2: Denominator value 15	65535
Read MU individual rates DataFrame2: Denominator value 16	65535
Read MU individual rates DataFrame2: Denominator value 17	65535
Read MU individual rates DataFrame2: Denominator value 18	65535
Read MU individual rates DataFrame2: Denominator value 19	65535
Read MU individual rates DataFrame2: Denominator value 2	65535
Read MU individual rates DataFrame2: Denominator value 20	65535
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Read MU individual rates DataFrame2: Denominator value 26	65535
Read MU individual rates DataFrame2: Denominator value 27	65535
Read MU individual rates DataFrame2: Denominator value 28	65535
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Read MU individual rates DataFrame2: Denominator value 37	65535
Read MU individual rates DataFrame2: Denominator value 38	65535
Read MU individual rates DataFrame2: Denominator value 39	65535
Read MU individual rates DataFrame2: Denominator value 4	65535
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Read MU individual rates DataFrame2: Denominator value 41	65535
Read MU individual rates DataFrame2: Denominator value 42	65535
Read MU individual rates DataFrame2: Denominator value 43	65535
Read MU individual rates DataFrame2: Denominator value 44	65535
Read MU individual rates DataFrame2: Denominator value 45	65535
Read MU individual rates DataFrame2: Denominator value 46	65535
Read MU individual rates DataFrame2: Denominator value 47	65535
Read MU individual rates DataFrame2: Denominator value 48	65535
Read MU individual rates DataFrame2: Denominator value 49	65535
Read MU individual rates DataFrame2: Denominator value 5	65535
Read MU individual rates DataFrame2: Denominator value 50	65535
Read MU individual rates DataFrame2: Denominator value 6	65535
Read MU individual rates DataFrame2: Denominator value 7	65535
Read MU individual rates DataFrame2: Denominator value 8	65535
Read MU individual rates DataFrame2: Denominator value 9	65535
Read MU individual rates DataFrame2: FaultCodeTableVersion	236
Read MU individual rates DataFrame2 HexDump: MU individual rates DataFrame2 Data	00EC00FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Read MU individual rates DataFrame2:	0

Number of following MU rates	
Read MU individual rates DataFrame2: Numerator value 1	65535
Read MU individual rates DataFrame2: Numerator value 10	65535
Read MU individual rates DataFrame2: Numerator value 11	65535
Read MU individual rates DataFrame2: Numerator value 12	65535
Read MU individual rates DataFrame2: Numerator value 13	65535
Read MU individual rates DataFrame2: Numerator value 14	65535
Read MU individual rates DataFrame2: Numerator value 15	65535
Read MU individual rates DataFrame2: Numerator value 16	65535
Read MU individual rates DataFrame2: Numerator value 17	65535
Read MU individual rates DataFrame2: Numerator value 18	65535
Read MU individual rates DataFrame2: Numerator value 19	65535
Read MU individual rates DataFrame2: Numerator value 2	65535
Read MU individual rates DataFrame2: Numerator value 20	65535
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Read MU individual rates DataFrame2: Numerator value 37	65535
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Read MU individual rates DataFrame2: Numerator value 4	65535
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Read MU individual rates DataFrame2: Numerator value 42	65535
Read MU individual rates DataFrame2: Numerator value 43	65535
Read MU individual rates DataFrame2: Numerator value 44	65535
Read MU individual rates DataFrame2: Numerator value 45	65535
Read MU individual rates DataFrame2: Numerator value 46	65535
Read MU individual rates DataFrame2: Numerator value 47	65535
Read MU individual rates DataFrame2: Numerator value 48	65535
Read MU individual rates DataFrame2: Numerator value 49	65535
Read MU individual rates DataFrame2: Numerator value 5	65535
Read MU individual rates DataFrame2: Numerator value 50	65535
Read MU individual rates DataFrame2:	

Numerator value 6	65535
Read MU individual rates DataFrame2: Numerator value 7	65535
Read MU individual rates DataFrame2: Numerator value 8	65535
Read MU individual rates DataFrame2: Numerator value 9	65535
Read MU individual rates DataFrame2: SPN High Byte + FMI 1	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 10	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 11	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 12	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 13	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 14	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 15	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 16	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 17	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 18	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 19	FF
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Read MU individual rates DataFrame2: SPN High Byte + FMI 42	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 43	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 44	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 45	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 46	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 47	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 48	FF
Read MU individual rates DataFrame2:	

SPN High Byte + FMI 49	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 5	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 50	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 6	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 7	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 8	FF
Read MU individual rates DataFrame2: SPN High Byte + FMI 9	FF
Read MU individual rates DataFrame2: SPN Low Byte 1	FF
Read MU individual rates DataFrame2: SPN Low Byte 10	FF
Read MU individual rates DataFrame2: SPN Low Byte 11	FF
Read MU individual rates DataFrame2: SPN Low Byte 12	FF
Read MU individual rates DataFrame2: SPN Low Byte 13	FF
Read MU individual rates DataFrame2: SPN Low Byte 14	FF
Read MU individual rates DataFrame2: SPN Low Byte 15	FF
Read MU individual rates DataFrame2: SPN Low Byte 16	FF
Read MU individual rates DataFrame2: SPN Low Byte 17	FF
Read MU individual rates DataFrame2: SPN Low Byte 18	FF
Read MU individual rates DataFrame2: SPN Low Byte 19	FF
Read MU individual rates DataFrame2: SPN Low Byte 2	FF
Read MU individual rates DataFrame2: SPN Low Byte 20	FF
Read MU individual rates DataFrame2: SPN Low Byte 21	FF
Read MU individual rates DataFrame2: SPN Low Byte 22	FF
Read MU individual rates DataFrame2: SPN Low Byte 23	FF
Read MU individual rates DataFrame2: SPN Low Byte 24	FF
Read MU individual rates DataFrame2: SPN Low Byte 25	FF
Read MU individual rates DataFrame2: SPN Low Byte 26	FF
Read MU individual rates DataFrame2: SPN Low Byte 27	FF
Read MU individual rates DataFrame2: SPN Low Byte 28	FF
Read MU individual rates DataFrame2: SPN Low Byte 29	FF
Read MU individual rates DataFrame2: SPN Low Byte 3	FF
Read MU individual rates DataFrame2: SPN Low Byte 30	FF
Read MU individual rates DataFrame2: SPN Low Byte 31	FF
Read MU individual rates DataFrame2: SPN Low Byte 32	FF
Read MU individual rates DataFrame2: SPN Low Byte 33	FF
Read MU individual rates DataFrame2: SPN Low Byte 34	FF
Read MU individual rates DataFrame2: SPN Low Byte 35	FF
Read MU individual rates DataFrame2: SPN Low Byte 36	FF
Read MU individual rates DataFrame2: SPN Low Byte 37	FF
Read MU individual rates DataFrame2: SPN Low Byte 38	FF
Read MU individual rates DataFrame2: SPN Low Byte 39	FF
Read MU individual rates DataFrame2: SPN Low Byte 4	FF
Read MU individual rates DataFrame2: SPN Low Byte 40	FF
Read MU individual rates DataFrame2: SPN Low Byte 41	FF
Read MU individual rates DataFrame2: SPN Low Byte 42	FF
Read MU individual rates DataFrame2: SPN Low Byte 43	FF
Read MU individual rates DataFrame2: SPN Low Byte 44	FF
Read MU individual rates DataFrame2: SPN Low Byte 45	FF
Read MU individual rates DataFrame2:	

SPN Low Byte 46	FF
Read MU individual rates DataFrame2: SPN Low Byte 47	FF
Read MU individual rates DataFrame2: SPN Low Byte 48	FF
Read MU individual rates DataFrame2: SPN Low Byte 49	FF
Read MU individual rates DataFrame2: SPN Low Byte 5	FF
Read MU individual rates DataFrame2: SPN Low Byte 50	FF
Read MU individual rates DataFrame2: SPN Low Byte 6	FF
Read MU individual rates DataFrame2: SPN Low Byte 7	FF
Read MU individual rates DataFrame2: SPN Low Byte 8	FF
Read MU individual rates DataFrame2: SPN Low Byte 9	FF
Read MU individual rates DataFrame2: SPN Mid Byte 1	FF
Read MU individual rates DataFrame2: SPN Mid Byte 10	FF
Read MU individual rates DataFrame2: SPN Mid Byte 11	FF
Read MU individual rates DataFrame2: SPN Mid Byte 12	FF
Read MU individual rates DataFrame2: SPN Mid Byte 13	FF
Read MU individual rates DataFrame2: SPN Mid Byte 14	FF
Read MU individual rates DataFrame2: SPN Mid Byte 15	FF
Read MU individual rates DataFrame2: SPN Mid Byte 16	FF
Read MU individual rates DataFrame2: SPN Mid Byte 17	FF
Read MU individual rates DataFrame2: SPN Mid Byte 18	FF
Read MU individual rates DataFrame2: SPN Mid Byte 19	FF
Read MU individual rates DataFrame2: SPN Mid Byte 2	FF
Read MU individual rates DataFrame2: SPN Mid Byte 20	FF
Read MU individual rates DataFrame2: SPN Mid Byte 21	FF
Read MU individual rates DataFrame2: SPN Mid Byte 22	FF
Read MU individual rates DataFrame2: SPN Mid Byte 23	FF
Read MU individual rates DataFrame2: SPN Mid Byte 24	FF
Read MU individual rates DataFrame2: SPN Mid Byte 25	FF
Read MU individual rates DataFrame2: SPN Mid Byte 26	FF
Read MU individual rates DataFrame2: SPN Mid Byte 27	FF
Read MU individual rates DataFrame2: SPN Mid Byte 28	FF
Read MU individual rates DataFrame2: SPN Mid Byte 29	FF
Read MU individual rates DataFrame2: SPN Mid Byte 3	FF
Read MU individual rates DataFrame2: SPN Mid Byte 30	FF
Read MU individual rates DataFrame2: SPN Mid Byte 31	FF
Read MU individual rates DataFrame2: SPN Mid Byte 32	FF
Read MU individual rates DataFrame2: SPN Mid Byte 33	FF
Read MU individual rates DataFrame2: SPN Mid Byte 34	FF
Read MU individual rates DataFrame2: SPN Mid Byte 35	FF
Read MU individual rates DataFrame2: SPN Mid Byte 36	FF
Read MU individual rates DataFrame2: SPN Mid Byte 37	FF
Read MU individual rates DataFrame2: SPN Mid Byte 38	FF
Read MU individual rates DataFrame2: SPN Mid Byte 39	FF
Read MU individual rates DataFrame2: SPN Mid Byte 4	FF
Read MU individual rates DataFrame2: SPN Mid Byte 40	FF
Read MU individual rates DataFrame2: SPN Mid Byte 41	FF
Read MU individual rates DataFrame2: SPN Mid Byte 42	FF
Read MU individual rates DataFrame2:	

SPN Mid Byte 43	FF
Read MU individual rates DataFrame2: SPN Mid Byte 44	FF
Read MU individual rates DataFrame2: SPN Mid Byte 45	FF
Read MU individual rates DataFrame2: SPN Mid Byte 46	FF
Read MU individual rates DataFrame2: SPN Mid Byte 47	FF
Read MU individual rates DataFrame2: SPN Mid Byte 48	FF
Read MU individual rates DataFrame2: SPN Mid Byte 49	FF
Read MU individual rates DataFrame2: SPN Mid Byte 5	FF
Read MU individual rates DataFrame2: SPN Mid Byte 50	FF
Read MU individual rates DataFrame2: SPN Mid Byte 6	FF
Read MU individual rates DataFrame2: SPN Mid Byte 7	FF
Read MU individual rates DataFrame2: SPN Mid Byte 8	FF
Read MU individual rates DataFrame2: SPN Mid Byte 9	FF
Read Programming Attempt Counter: EDUActFirmProgAttempts	65535
Read Programming Attempt Counter: EDUActFuelProgAttempts	65535
Read Programming Attempt Counter: EDUMaxFirmProgAttempts	65535
Read Programming Attempt Counter: EDUMaxFuelProgAttempts	65535
Read Programming Attempt Counter: EcuActFirmProgAttempts	1
Read Programming Attempt Counter: EcuActFuelProgAttempts	1
Read Programming Attempt Counter: MaxFirmProgAttempts	1023
Read Programming Attempt Counter: MaxFuelProgAttempts	1023
Read aggregated RBM group rates: Assigned RBM group number 1	Comprehensive Component Monitoring
Read aggregated RBM group rates: Assigned RBM group number 10	Reserved Group 2
Read aggregated RBM group rates: Assigned RBM group number 11	Reserved Group 3
Read aggregated RBM group rates: Assigned RBM group number 12	Reserved Group 4
Read aggregated RBM group rates: Assigned RBM group number 13	Reserved Group 5
Read aggregated RBM group rates: Assigned RBM group number 14	Reserved Group 6
Read aggregated RBM group rates: Assigned RBM group number 15	Reserved Group 7
Read aggregated RBM group rates: Assigned RBM group number 16	Reserved Group 8
Read aggregated RBM group rates: Assigned RBM group number 17	Reserved Group 9
Read aggregated RBM group rates: Assigned RBM group number 18	Reserved Group 10
Read aggregated RBM group rates: Assigned RBM group number 19	
Read aggregated RBM group rates: Assigned RBM group number 2	NMHC Converting Catalyst
Read aggregated RBM group rates: Assigned RBM group number 3	NOx Converting Catalyst
Read aggregated RBM group rates: Assigned RBM group number 4	Exhaust gas Sensor
Read aggregated RBM group rates: Assigned RBM group number 5	EGR System
Read aggregated RBM group rates: Assigned RBM group number 6	PM Filter
Read aggregated RBM group rates: Assigned RBM group number 7	Boost Pressure Control System
Read aggregated RBM group rates: Assigned RBM group number 8	Misfire
Read aggregated RBM group rates: Assigned RBM group number 9	Fuel System
Read aggregated RBM group rates: Denominator value 1	808
Read aggregated RBM group rates: Denominator value 10	0
Read aggregated RBM group rates: Denominator value 11	0
Read aggregated RBM group rates: Denominator value 12	0
Read aggregated RBM group rates: Denominator value 13	0
Read aggregated RBM group rates: Denominator value 14	0
Read aggregated RBM group rates: Denominator value 15	0
Read aggregated RBM group rates:	

Denominator value 16	0
Read aggregated RBM group rates: Denominator value 17	0
Read aggregated RBM group rates: Denominator value 18	0
Read aggregated RBM group rates: Denominator value 19	0
Read aggregated RBM group rates: Denominator value 2	236
Read aggregated RBM group rates: Denominator value 3	808
Read aggregated RBM group rates: Denominator value 4	0
Read aggregated RBM group rates: Denominator value 5	0
Read aggregated RBM group rates: Denominator value 6	259
Read aggregated RBM group rates: Denominator value 7	0
Read aggregated RBM group rates: Denominator value 8	0
Read aggregated RBM group rates: Denominator value 9	0
Read aggregated RBM group rates: General Denominator	808
Read aggregated RBM group rates: Ignition Cycle counter	1238
Read aggregated RBM group rates: Number of following MU rates	19
Read aggregated RBM group rates: Numerator value 1	0
Read aggregated RBM group rates: Numerator value 10	0
Read aggregated RBM group rates: Numerator value 11	0
Read aggregated RBM group rates: Numerator value 12	0
Read aggregated RBM group rates: Numerator value 13	0
Read aggregated RBM group rates: Numerator value 14	0
Read aggregated RBM group rates: Numerator value 15	0
Read aggregated RBM group rates: Numerator value 16	0
Read aggregated RBM group rates: Numerator value 17	0
Read aggregated RBM group rates: Numerator value 18	0
Read aggregated RBM group rates: Numerator value 19	0
Read aggregated RBM group rates: Numerator value 2	325
Read aggregated RBM group rates: Numerator value 3	252
Read aggregated RBM group rates: Numerator value 4	0
Read aggregated RBM group rates: Numerator value 5	0
Read aggregated RBM group rates: Numerator value 6	359
Read aggregated RBM group rates: Numerator value 7	0
Read aggregated RBM group rates: Numerator value 8	0
Read aggregated RBM group rates: Numerator value 9	0
Read aggregated RBM group rates: Warm up cycle counter	250
Read look up table 1: CRC16 checksum	0000
Read look up table 1: sys_look_up_table1_1m	00000000
Read look up table 1: sys_look_up_table1_vers_1m	0
VIN Odometer: VIN Odometer	250 km/bit
VIN Odometer limit: VIN Odometer limit	250 km/bit