



VEHICLE FACTORS GROUP CHAIRMAN'S
Vehicle Attachment – UPS Freightliner #2 DDEC Data
Mount Pleasant, Pennsylvania
HWY20MH002
(55 pages)

DDEC® Reports - Trip Activity

File Name: 011620CARSAC.XTR

Print Date: 1/16/2020 11:17 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)

Vehicle ID: X7288

Driver ID:

Odometer: 525683.6 mi

Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

Driving

Time	323:50:32
Percent	77.22 %
Fuel	2871.13 gal
Economy	6.96 mpg

Vehicle Speed Limiting

Time	146:42:50
Percent	45.30 %
Distance	10284.2 mi
Fuel	1269.88 gal

Top Gear

Time	269:02:19
Percent	81.91 %
Distance	18288.2 mi
Fuel	2555.25 gal

Top Gear - 1

Time	17:12:32
Percent	5.24 %
Distance	936.0 mi
Fuel	176.88 gal

Cruise

Time	1:51:03
Percent	0.57 %
Distance	125.9 mi
Fuel	17.00 gal

Top Gear Cruise

Time	1:50:14
Percent	0.57 %
Distance	125.0 mi
Fuel	17.00 gal

Speeding A(>=66 and <71 mph)

Count	5085
Time	213:29:46
Percent	65.93 %

Speeding B(>=71 mph)

Count	775
Time	4:27:32
Percent	1.38 %

Highest Speed

82.0 mph

Occurred 12/15/19 21:08:33 (EST)

Coasting Time

0:00:00

Coasting Percent

0.00 %

Stop Idle

Time	82:32:23
Percent	19.68 %
Fuel	57.13 gal

Over Rev Limit

Count	2
Time	0:00:27
Percent	0.00 %

Highest RPM

2094 rpm

Occurred 12/08/19 20:38:51 (EST)

Diag. Records

83

Hard Brake Count

2

Firm Brake Count

78

Brake Count

5538

Eng. Brake Time

0:59:40

Fan On Time

Total Time 34:11:28

Engine System 0:17:07

Manual 0:00:00

A/C 33:46:50

DPF Fan Time 0:07:31

Engine Utilization

27.93 %

Vehicle Utilization

21.57 %

DPF Regeneration

Parked Completed 1

Parked Regen Fuel 3.56 gal

Driving Completed 0

Driving Regen Fuel 12.91 gal

Diesel Exhaust Fluid (DEF)

Trip Fluid 136.28 gal

Trip Percent 4.64 %

Trip Economy 146.62 mpg

Driving Fluid 135.12 gal

Driving Economy 147.88 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

File Name: 011620CARSAC.XTR

Print Date: 1/16/2020 11:17 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)

Vehicle ID: X7288

Driver ID:

Odometer: 525683.6 mi

Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

VSG (PTO)

Total Time	45:34:28
Percent	10.87 %
Total Fuel	31.00 gal
Working Time	0:00:00
Working Fuel	0.00 gal

DDEC® Reports - Monthly Activity

Print Date: 1/16/2020 11:17 AM

Pennsylvania State Police - CARS Unit

Partial Month: January, 2020 (EST)
Vehicle ID: X7288
Driver ID:
Odometer: 525683.6 mi
Engine S/N: 471928S0522912

Trip Distance	312.0 mi	Trip Time	9:14:37
Trip Fuel	44.75 gal	Fuel Consumption	4.84 gal/h
Fuel Economy	6.97 mpg	Idle Time	4:01:31
Avg Drive Load	48 %	Idle Percent	43.55 %
Avg Vehicle Speed	59.8 mph	Idle Fuel	2.38 gal
		Parked Regen Time	0:00:00

Driving

Time 5:13:06
Percent 56.45 %
Fuel 42.38 gal
Economy 7.36 mpg

Stop Idle

Time 3:40:37
Percent 39.78 %
Fuel 2.25 gal

Vehicle Speed Limiting

Time 1:44:30
Percent 33.38 %
Distance 121.7 mi
Fuel 16.13 gal

Over Rev Limit

Count 0
Time 0:00:00
Percent 0.00 %

Top Gear

Time 4:20:30
Percent 82.52 %
Distance 288.6 mi
Fuel 39.13 gal

Highest RPM

1800 rpm
Occurred 01/03/20 8:38:30 (EST)

Top Gear - 1

Time 0:14:24
Percent 4.56 %
Distance 11.2 mi
Fuel 1.63 gal

Diag. Records

26
Hard Brake Count 1
Firm Brake Count 0
Brake Count 56
Eng. Brake Time 0:00:00

Cruise

Time 0:00:00
Percent 0.00 %
Distance 0.0 mi
Fuel 0.00 gal

Fan On Time

Total Time 1:26:17
Engine System 0:00:00
Manual 0:00:00
A/C 1:26:17
DPF Fan Time 0:00:00

Top Gear Cruise

Time 0:00:00
Percent 0.00 %
Distance 0.0 mi
Fuel 0.00 gal

Engine Utilization

1.28 %

Vehicle Utilization

0.72 %

Speeding A(>=66 and <71 mph)

Count 63
Time 2:51:46
Percent 54.86 %

DPF Regeneration

Parked Completed 0
Parked Regen Fuel 0.00 gal
Driving Completed 0
Driving Regen Fuel 0.17 gal

Speeding B(>=71 mph)

Count 0
Time 0:00:00
Percent 0.00 %

Diesel Exhaust Fluid (DEF)

Trip Fluid 2.67 gal
Trip Percent 5.96 %
Trip Economy 116.92 mpg
Driving Fluid 2.66 gal
Driving Economy 117.18 mpg

Highest Speed

71.0 mph

Occurred 01/05/20 1:58:36 (EST)

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

Coasting Time

0:00:00

Coasting Percent

0.00 %

Optimized Idle Battery Charging Starts

Normal Count 0
Alternate Count 0
Continuous Run 0

DDEC® Reports - Monthly Activity

Print Date: 1/16/2020 11:17 AM

Pennsylvania State Police - CARS Unit

Partial Month: January, 2020 (EST)
Vehicle ID: X7288
Driver ID:
Odometer: 525683.6 mi
Engine S/N: 471928S0522912

Trip Distance	312.0 mi	Trip Time	9:14:37
Trip Fuel	44.75 gal	Fuel Consumption	4.84 gal/h
Fuel Economy	6.97 mpg	Idle Time	4:01:31
Avg Drive Load	48 %	Idle Percent	43.55 %
Avg Vehicle Speed	59.8 mph	Idle Fuel	2.38 gal
		Parked Regen Time	0:00:00

VSG (PTO)

Total Time	1:19:38
Percent	14.36 %
Total Fuel	0.75 gal
Working Time	0:00:00
Working Fuel	0.00 gal

DDEC® Reports - Monthly Activity

Print Date: 1/16/2020 11:17 AM

Pennsylvania State Police - CARS Unit

Month: December, 2019 (EST)
Vehicle ID: X7288
Driver ID:
Odometer: 525683.6 mi
Engine S/N: 471928S0522912

Trip Distance	17383.9 mi	Trip Time	354:45:09
Trip Fuel	2584.00 gal	Fuel Consumption	7.28 gal/h
Fuel Economy	6.73 mpg	Idle Time	74:12:54
Avg Drive Load	51 %	Idle Percent	20.92 %
Avg Vehicle Speed	62.0 mph	Idle Fuel	46.63 gal
		Parked Regen Time	0:00:00

Driving

Time	280:32:15
Percent	79.08 %
Fuel	2537.38 gal
Economy	6.85 mpg

Vehicle Speed Limiting

Time	125:08:33
Percent	44.61 %
Distance	8774.4 mi
Fuel	1088.50 gal

Top Gear

Time	233:33:53
Percent	82.13 %
Distance	15872.7 mi
Fuel	2251.88 gal

Top Gear - 1

Time	15:42:29
Percent	5.52 %
Distance	862.7 mi
Fuel	164.25 gal

Cruise

Time	1:38:38
Percent	0.59 %
Distance	112.9 mi
Fuel	15.63 gal

Top Gear Cruise

Time	1:38:17
Percent	0.58 %
Distance	112.4 mi
Fuel	15.63 gal

Speeding A(>=66 and <71 mph)

Count	4571
Time	184:20:48
Percent	65.71 %

Speeding B(>=71 mph)

Count	754
Time	4:23:01
Percent	1.56 %

Highest Speed

82.0 mph
Occurred 12/15/19 21:08:33 (EST)

Coasting Time

0:00:00

Coasting Percent

0.00 %

Stop Idle

Time	64:15:02
Percent	18.11 %
Fuel	42.13 gal

Over Rev Limit

Count	2
Time	0:00:27
Percent	0.00 %

Highest RPM

2094 rpm
Occurred 12/08/19 20:38:51 (EST)

Diag. Records

Hard Brake Count	0
Firm Brake Count	58
Brake Count	4747
Eng. Brake Time	0:59:33

Fan On Time

Total Time	24:52:40
Engine System	0:01:37
Manual	0:00:00
A/C	24:51:03
DPF Fan Time	0:00:00

Engine Utilization

49.27 %

Vehicle Utilization

38.96 %

DPF Regeneration

Parked Completed	0
Parked Regen Fuel	0.00 gal
Driving Completed	0
Driving Regen Fuel	9.57 gal

Diesel Exhaust Fluid (DEF)

Trip Fluid	120.92 gal
Trip Percent	4.68 %
Trip Economy	143.76 mpg
Driving Fluid	120.01 gal
Driving Economy	144.85 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: 1/16/2020 11:17 AM

Pennsylvania State Police - CARS Unit

Month: December, 2019 (EST)
Vehicle ID: X7288
Driver ID:
Odometer: 525683.6 mi
Engine S/N: 471928S0522912

Trip Distance	17383.9 mi	Trip Time	354:45:09
Trip Fuel	2584.00 gal	Fuel Consumption	7.28 gal/h
Fuel Economy	6.73 mpg	Idle Time	74:12:54
Avg Drive Load	51 %	Idle Percent	20.92 %
Avg Vehicle Speed	62.0 mph	Idle Fuel	46.63 gal
		Parked Regen Time	0:00:00

VSG (PTO)

Total Time	35:46:48
Percent	10.09 %
Total Fuel	24.50 gal
Working Time	0:00:00
Working Fuel	0.00 gal

DDEC® Reports - Monthly Activity

Print Date: 1/16/2020 11:17 AM

Pennsylvania State Police - CARS Unit

Month: November, 2019 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	1202.6 mi	Trip Time	31:26:11
Trip Fuel	166.50 gal	Fuel Consumption	5.30 gal/h
Fuel Economy	7.22 mpg	Idle Time	11:13:29
Avg Drive Load	45 %	Idle Percent	35.71 %
Avg Vehicle Speed	59.5 mph	Idle Fuel	6.88 gal
		Parked Regen Time	0:00:00

Driving
 Time 20:12:42
 Percent 64.29 %
 Fuel 159.63 gal
 Economy 7.53 mpg

Stop Idle
 Time 10:03:30
 Percent 32.00 %
 Fuel 6.38 gal

Vehicle Speed Limiting
 Time 9:55:14
 Percent 49.08 %
 Distance 694.0 mi
 Fuel 84.25 gal

Over Rev Limit 1800 rpm
 Count 0
 Time 0:00:00
 Percent 0.00 %

Top Gear
 Time 16:29:21
 Percent 79.59 %
 Distance 1126.0 mi
 Fuel 144.88 gal

Highest RPM 2013 rpm
 Occurred 11/27/19 11:51:43 (EST)

Top Gear - 1
 Time 0:37:06
 Percent 2.98 %
 Distance 29.7 mi
 Fuel 6.00 gal

Diag. Records 0
Hard Brake Count 1
Firm Brake Count 7
Brake Count 388
Eng. Brake Time 0:00:02

Cruise
 Time 0:03:07
 Percent 0.26 %
 Distance 3.6 mi
 Fuel 0.38 gal

Fan On Time
 Total Time 6:19:11
 Engine System 0:00:00
 Manual 0:00:00
 A/C 6:19:11
 DPF Fan Time 0:00:00

Top Gear Cruise
 Time 0:03:07
 Percent 0.26 %
 Distance 3.6 mi
 Fuel 0.38 gal

Engine Utilization 4.52 %
Vehicle Utilization 2.90 %

Speeding A(>=66 and <71 mph)
 Count 269
 Time 13:40:52
 Percent 67.69 %

DPF Regeneration
 Parked Completed 0
 Parked Regen Fuel 0.00 gal
 Driving Completed 0
 Driving Regen Fuel 2.22 gal

Speeding B(>=71 mph)
 Count 13
 Time 0:02:52
 Percent 0.24 %

Diesel Exhaust Fluid (DEF)
 Trip Fluid 6.52 gal
 Trip Percent 3.92 %
 Trip Economy 184.41 mpg
 Driving Fluid 6.47 gal
 Driving Economy 185.84 mpg

Highest Speed 76.0 mph
 Occurred 11/27/19 6:58:31 (EST)

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

Coasting Time 0:00:00
Coasting Percent 0.00 %

Optimized Idle Battery Charging Starts
 Normal Count 0
 Alternate Count 0
 Continuous Run 0

DDEC® Reports - Monthly Activity

Print Date: 1/16/2020 11:17 AM

Pennsylvania State Police - CARS Unit

Month: November, 2019 (EST)
Vehicle ID: X7288
Driver ID:
Odometer: 525683.6 mi
Engine S/N: 471928S0522912

Trip Distance	1202.6 mi	Trip Time	31:26:11
Trip Fuel	166.50 gal	Fuel Consumption	5.30 gal/h
Fuel Economy	7.22 mpg	Idle Time	11:13:29
Avg Drive Load	45 %	Idle Percent	35.71 %
Avg Vehicle Speed	59.5 mph	Idle Fuel	6.88 gal
		Parked Regen Time	0:00:00

VSG (PTO)

Total Time	5:50:00
Percent	18.56 %
Total Fuel	3.75 gal
Working Time	0:00:00
Working Fuel	0.00 gal

DDEC® Reports - Configuration

File Name: 011620CARSAC.XTR
 Print Date: 1/16/2020 11:17 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

Hard Brake Limit 7.0 mph/s
 Stop Idle Limit 5 min
 Top Gear Limit 19 rpm/mph
 Top Gear-1 Limit 25 rpm/mph

Learned On: 01/02/2020 (EST)

ECM S/W X42_01_000A
 ECM Type DDEC-CPC4
 Config. Change 01/16/2020 (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

File Name: 011620CARSAC.XTR

Print Date: 1/16/2020 11:17 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)

Vehicle ID: X7288

Driver ID:

Odometer: 525683.6 mi

Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

Total Distance	525683.6 mi
Total Time	10773:15:52
Total Fuel	74165.21 gal
Overall Fuel Economy	7.09 mpg
Avg Vehicle Speed	48.80 mph
Idle Time	2325:10:59
Idle Percent	21.58 %
Idle Fuel	1629.04 gal
Total MCM Time	10772:53:47
VSG(PTO) Total Time	1155:54:58
VSG(PTO) Percent	10.73 %
VSG(PTO) Total Fuel	874.88 gal
VSG(PTO) Working Time	0:00:01
VSG(PTO) Working Fuel	0.00 gal
Cruise Percent	3.42 %
Cruise Time	288:56:55
Eng. Brake Time	58:45:51
Revolutions/mi	1474
Average RPM	1199

Avg. Drive Load 49 %

Optimized Idle Time

Active Time	0:00:00
Run Time	0:00:00

Optimized Idle Battery Charging Starts

Normal Count	0
Alternate Count	0
Continuous Run	0

Fan On Time

Total Time	1256:23:42
Engine System	5:05:27
Manual	0:00:00
A/C	1251:18:15
DPF Fan Time	4:25:31

Peak Road Speed 93.0 mph

Occurred 03/31/19 18:15 (EST)

Peak Engine RPM 2406 rpm

Occurred 06/30/19 22:39 (EST)

Parked Regen Fuel	36.66 gal
Driving Regen Fuel	198.41 gal
Parked Regen Time	9:38:47

Diesel Exhaust Fluid (DEF)

Total Fluid	3280.75 gal
Total Percent	4.42 %
Total Economy	160.23 mpg
Driving Fluid	3258.75 gal
Driving Economy	161.31 mpg

DPF Regeneration

Parked Completed	19
Occurred	11/21/19 20:12 (EST)
Driving Completed	78
Occurred	11/03/19 23:34 (EST)

Intelligent Powertrain Management (IPM)

Time	-
Percent	-

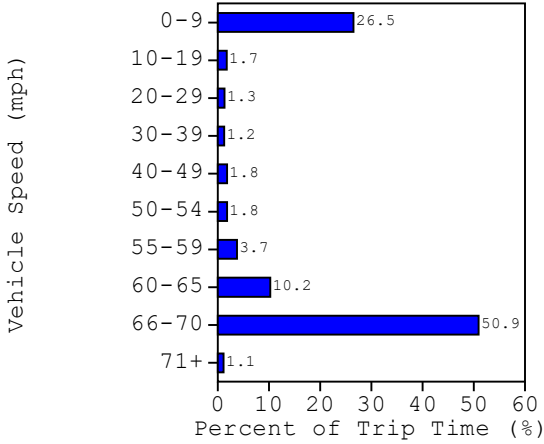
DDEC® Reports - Vehicle Speed/RPM

File Name: 011620CARSAC.XTR
 Print Date: 1/16/2020 11:17 AM

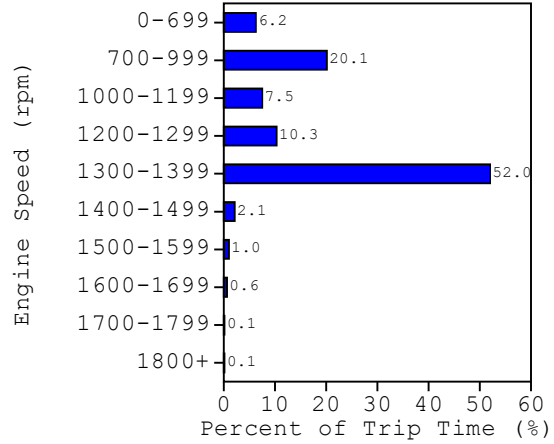
Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

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	5.8	0.1						0.1	0.1		6.2
700- 999	18.8	0.5	0.2	0.2	0.1	0.1					20.1
1000-1199	0.9	0.7	0.7	0.5	0.6	0.6	2.6	0.8			7.5
1200-1299	0.8	0.2	0.2	0.2	0.4	0.2		8.0	0.3		10.3
1300-1399	0.1	0.1	0.1	0.1	0.2	0.7	0.1	0.3	50.3		52.0
1400-1499			0.1	0.1	0.2		0.8			0.9	2.1
1500-1599				0.1	0.1		0.1	0.6		0.1	1.0
1600-1699						0.1		0.3	0.1		0.6
1700-1799									0.1		0.1
1800+										0.1	0.1
Total	26.5	1.7	1.3	1.2	1.8	1.8	3.7	10.2	50.9	1.1	
Brakes	1005	463	497	396	381	329	507	966	665	329	5538
Hard Brakes							1	1			2
Firm Brakes		6	36	19	3	5	2	5	2		78

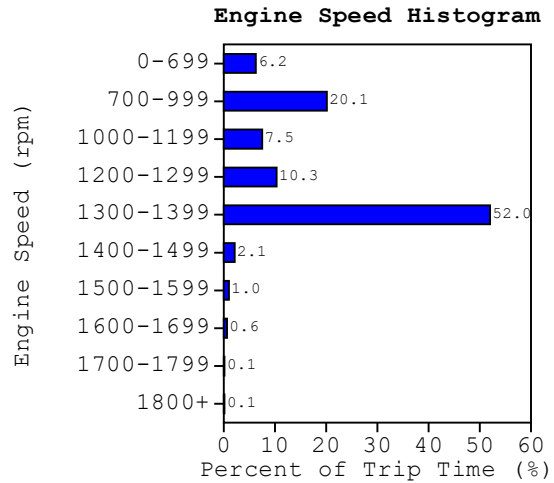
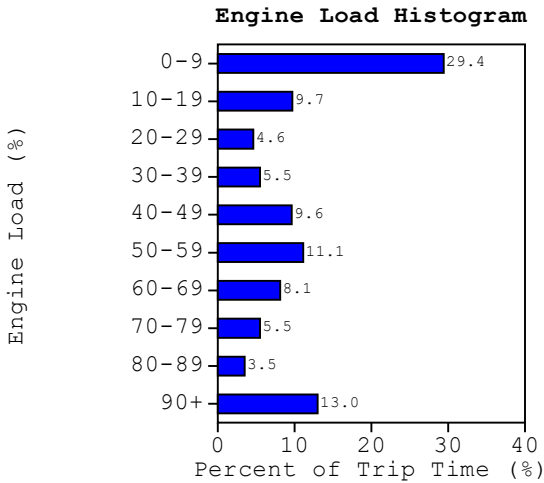
Note: This table contains values <0.005 percent of trip time

DDEC® Reports - Engine Load/RPM

File Name: 011620CARSAC.XTR
 Print Date: 1/16/2020 11:17 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57



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	3.0	2.5	0.5	0.1							6.2
700- 999	16.9	2.8	0.2	0.1	0.1						20.1
1000-1199	2.2	1.0	0.6	0.4	0.4	0.4	0.3	0.3	0.3	1.6	7.5
1200-1299	1.9	1.1	0.6	0.6	0.7	0.6	0.6	0.5	0.5	3.2	10.3
1300-1399	3.6	2.3	2.6	4.1	8.3	9.9	7.1	4.5	2.7	6.8	52.0
1400-1499	1.2	0.1								0.6	2.1
1500-1599	0.3									0.5	1.0
1600-1699	0.1									0.3	0.6
1700-1799	0.1										0.1
1800+	0.1										0.1
Total	29.4	9.7	4.6	5.5	9.6	11.1	8.1	5.5	3.5	13.0	

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

DDEC® Reports - Over Speed/Over Rev

File Name: 011620CARSAC.XTR

Print Date: 1/16/2020 11:17 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)

Vehicle ID: X7288

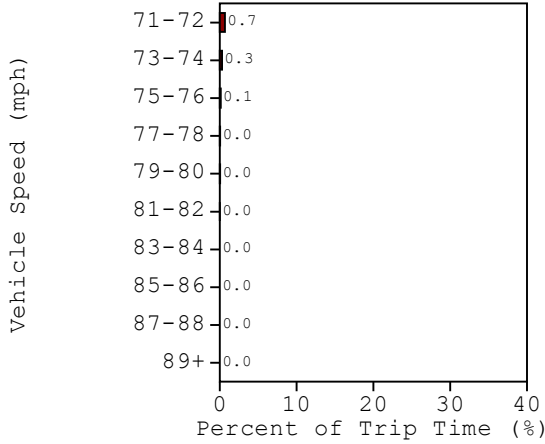
Driver ID:

Odometer: 525683.6 mi

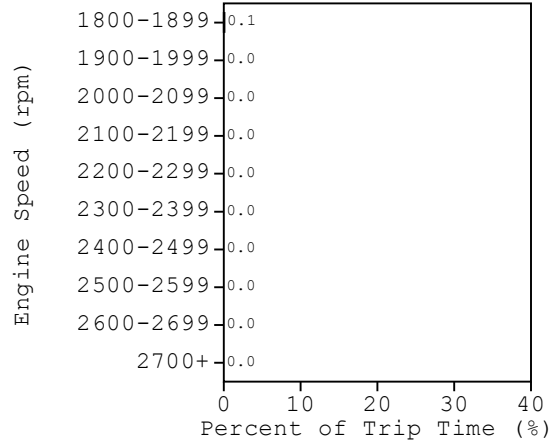
Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

Over Speed Histogram



Over Rev Histogram



Percent of Trip Time in Over Speed and Over Rev Bands

Vehicle Speed Table Does Not Exist For 011620CARSAC.XTR
(Table Data Does Not Exist)

Engine Speed(rpm)

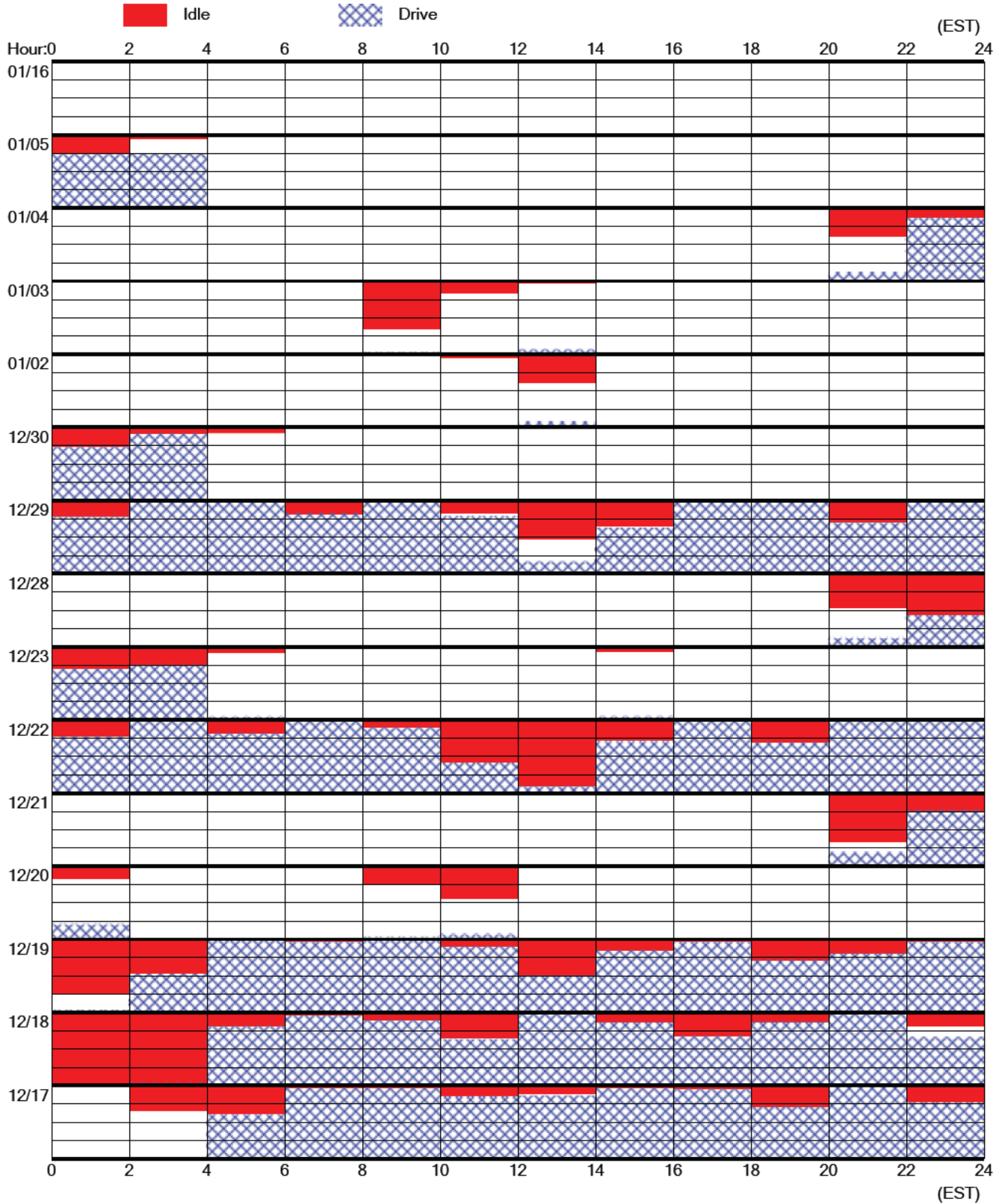
1800 1899	1900 1999	2000 2099	2100 2199	2200 2299	2300 2399	2400 2499	2500 2599	2600 2699	2700+
0.08									

DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:17 AM
 Pennsylvania State Police - CARS Unit

Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
 Driver ID:
 Engine S/N: 471928S0522912

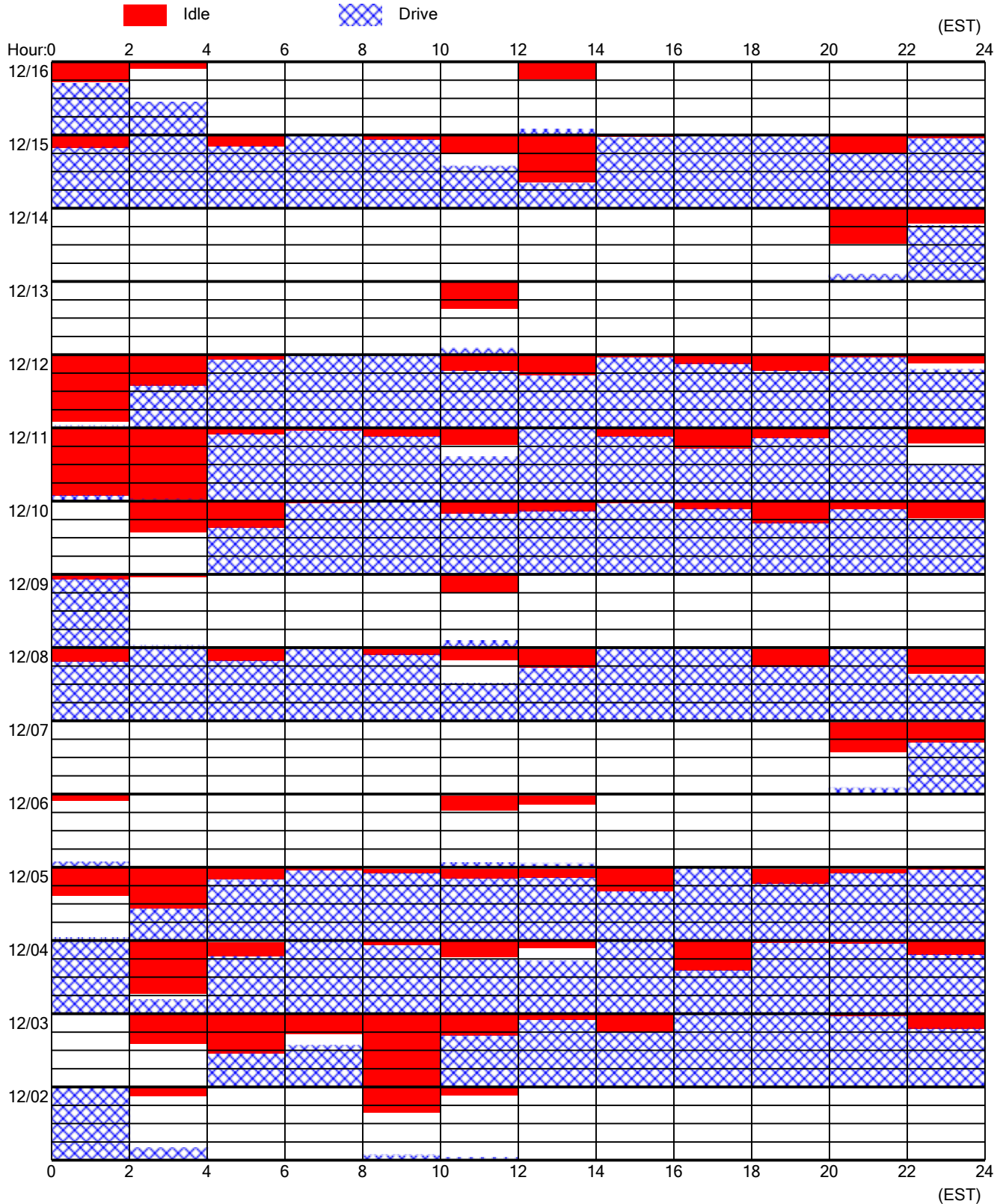


DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:17 AM
Pennsylvania State Police - CARS Unit

Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
Driver ID:
Engine S/N: 471928S0522912



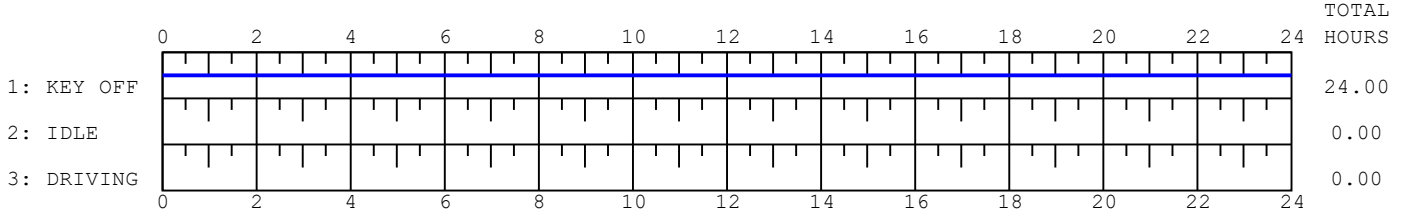
DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
Pennsylvania State Police - CARS Unit

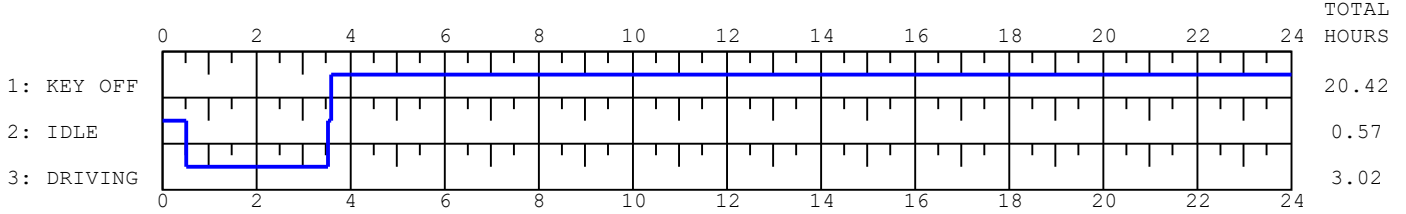
Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
Driver ID:
Engine S/N: 471928S0522912

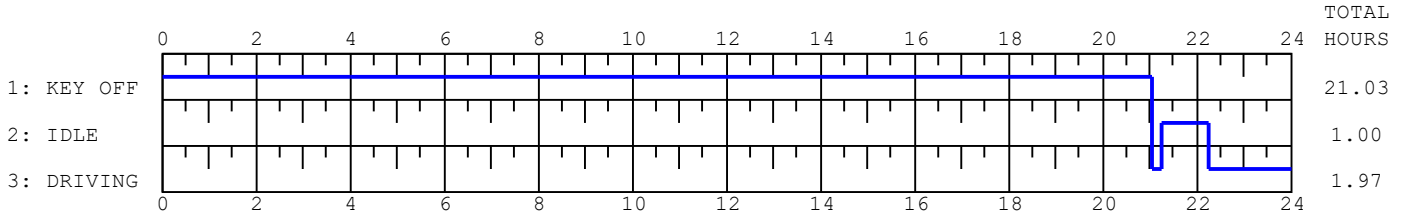
(1/16/2020)



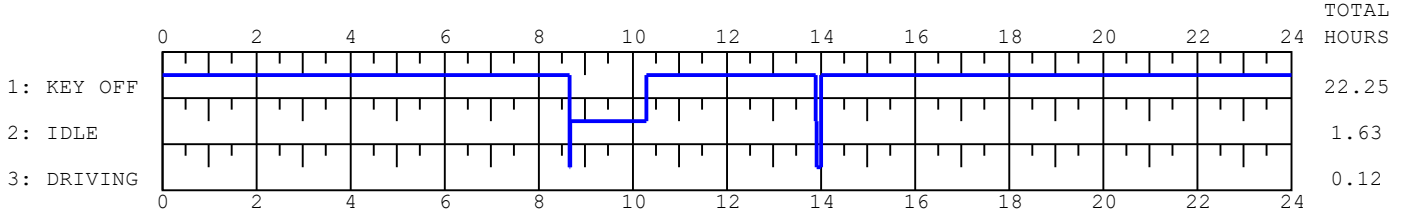
(1/5/2020)



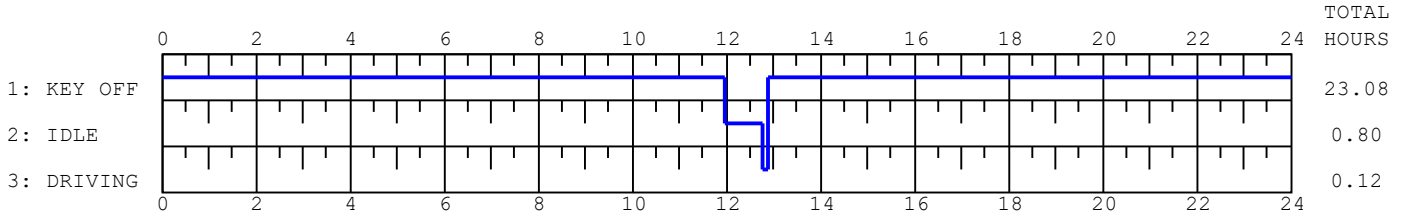
(1/4/2020)



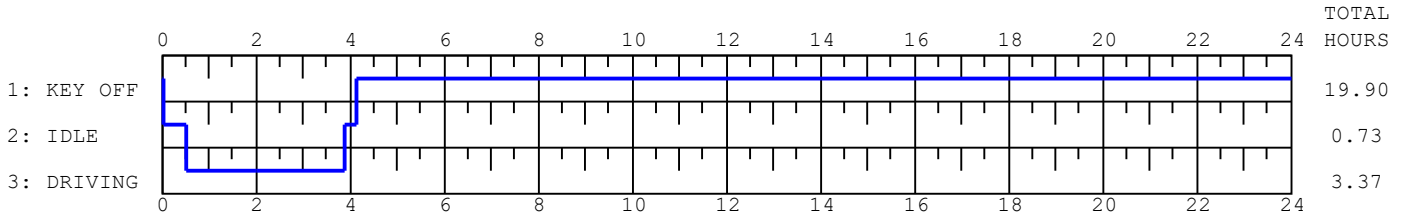
(1/3/2020)



(1/2/2020)



(12/30/2019)



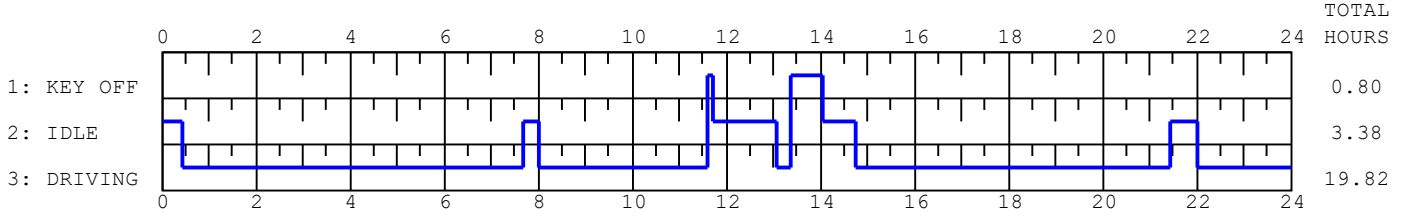
DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
Pennsylvania State Police - CARS Unit

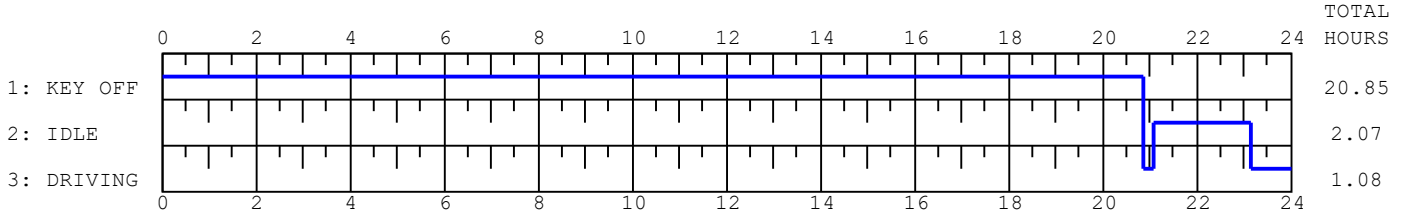
Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
Driver ID:
Engine S/N: 471928S0522912

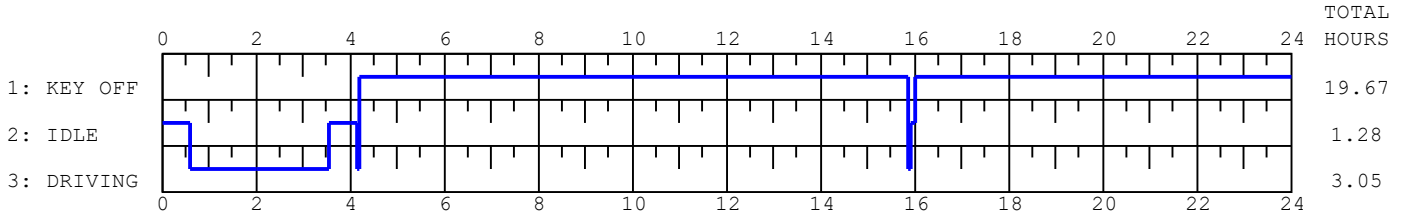
(12/29/2019)



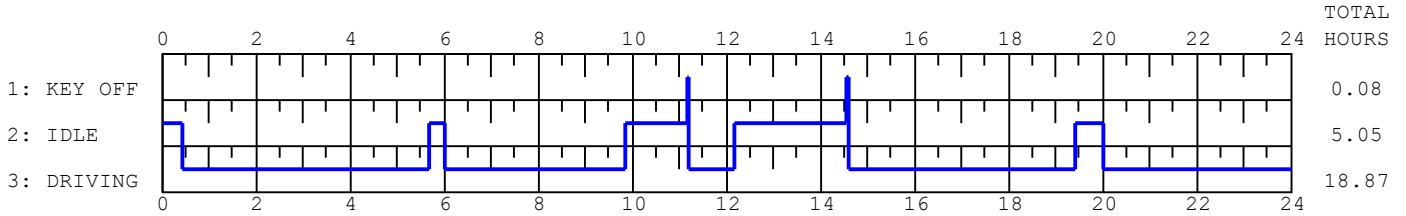
(12/28/2019)



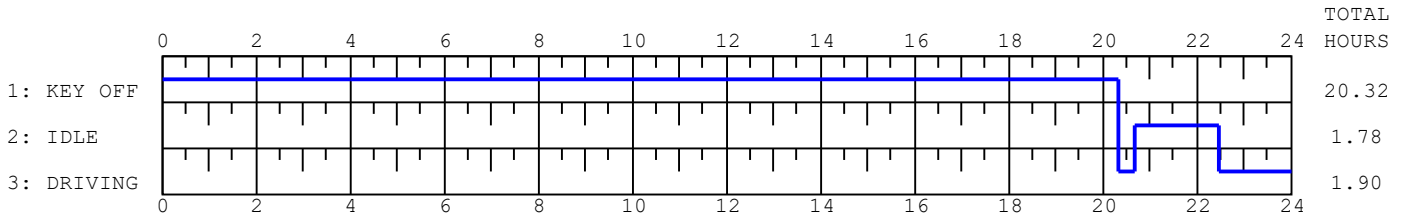
(12/23/2019)



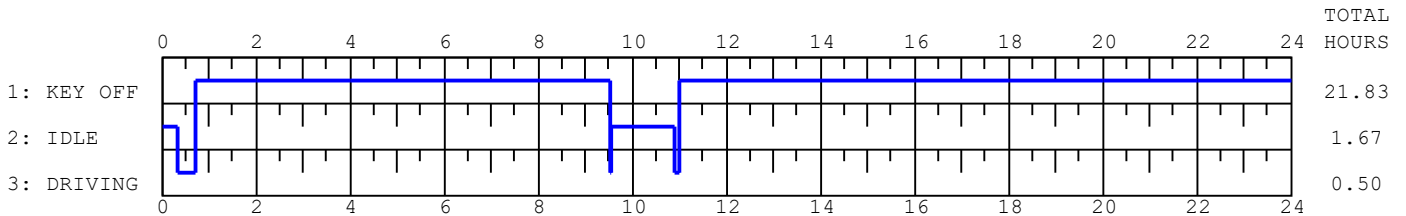
(12/22/2019)



(12/21/2019)



(12/20/2019)



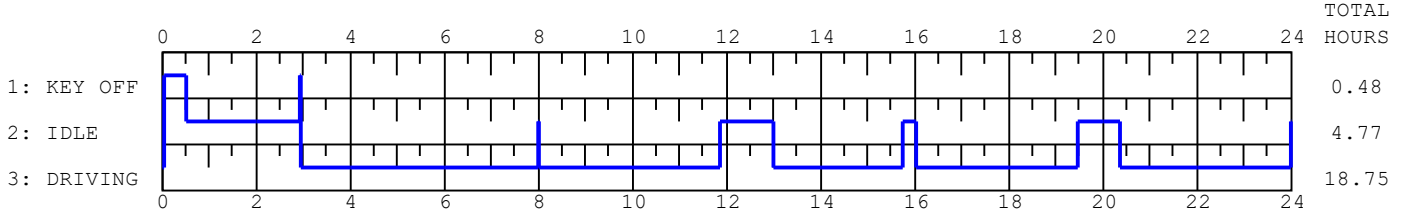
DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
Pennsylvania State Police - CARS Unit

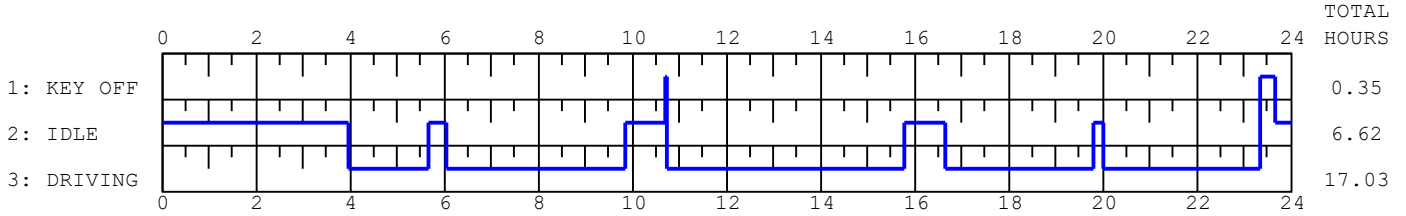
Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
Driver ID:
Engine S/N: 471928S0522912

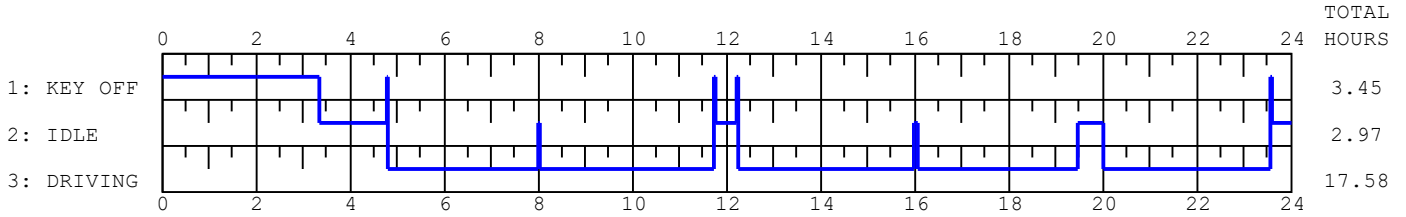
(12/19/2019)



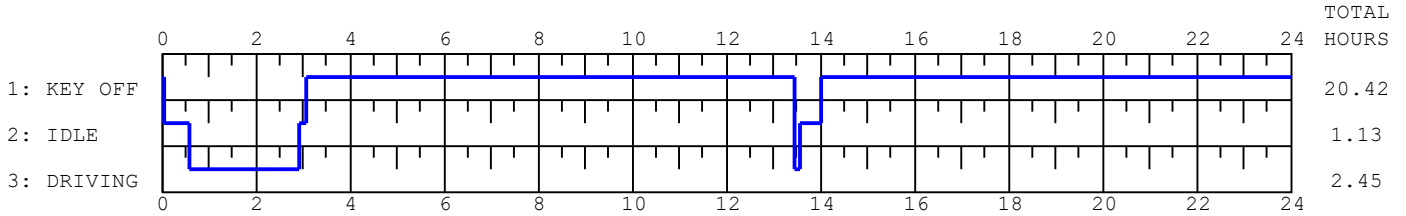
(12/18/2019)



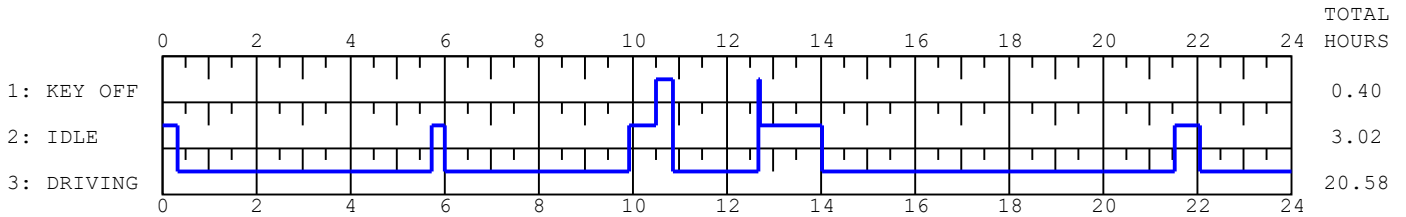
(12/17/2019)



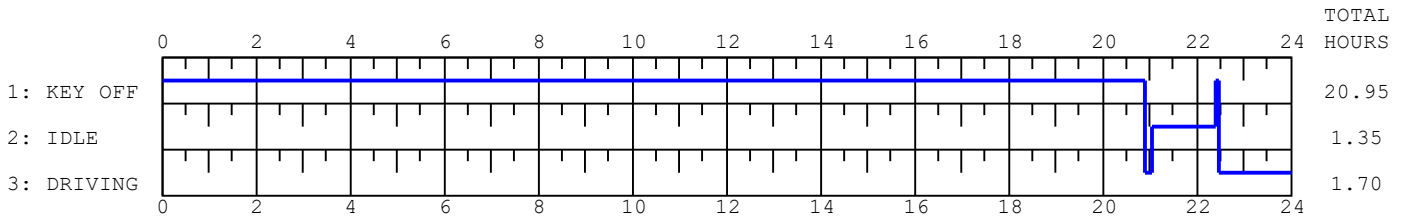
(12/16/2019)



(12/15/2019)



(12/14/2019)



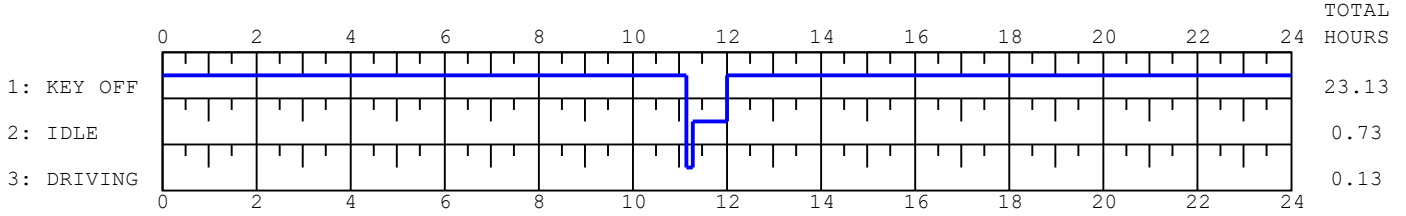
DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
Pennsylvania State Police - CARS Unit

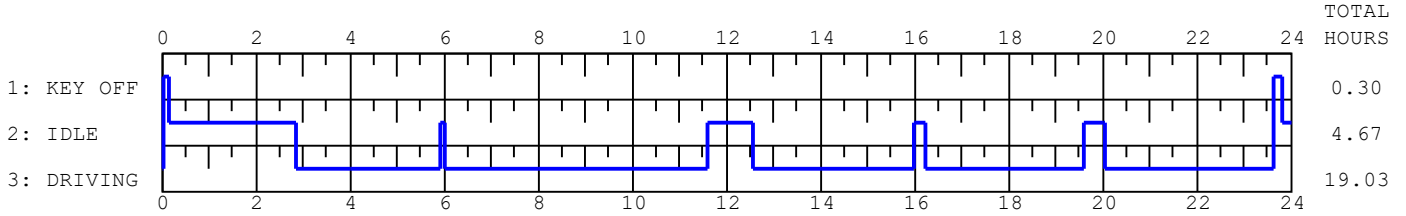
Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
Driver ID:
Engine S/N: 471928S0522912

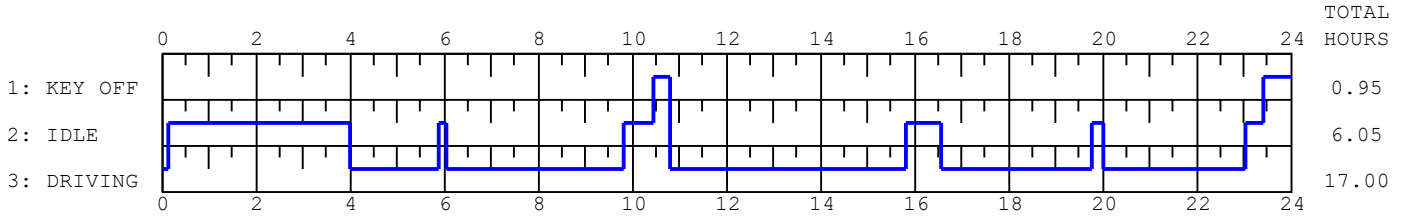
(12/13/2019)



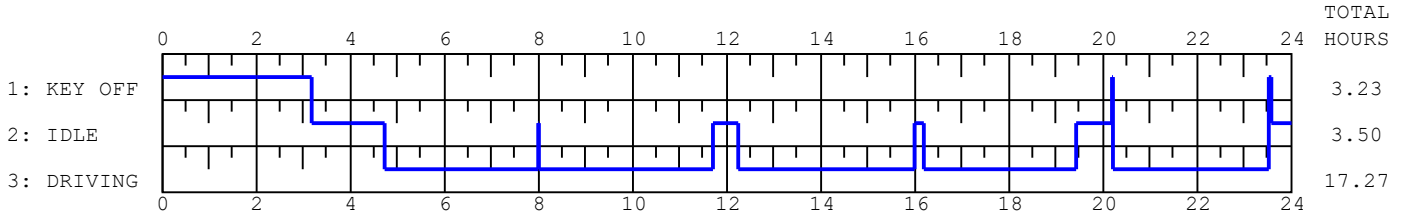
(12/12/2019)



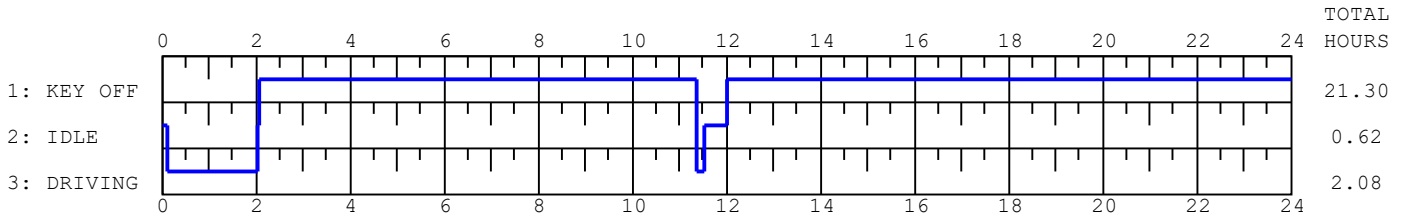
(12/11/2019)



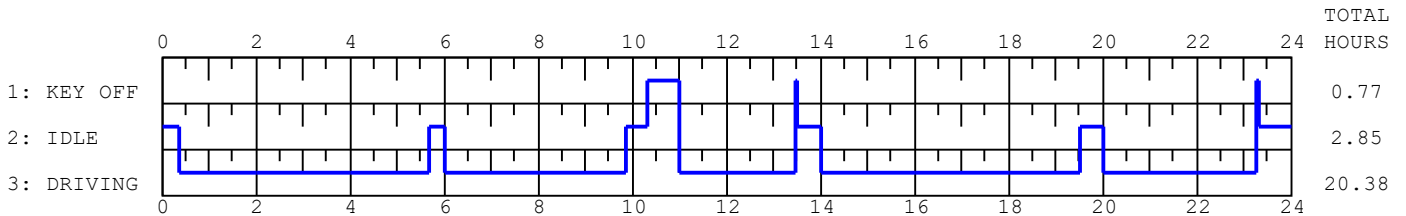
(12/10/2019)



(12/9/2019)



(12/8/2019)



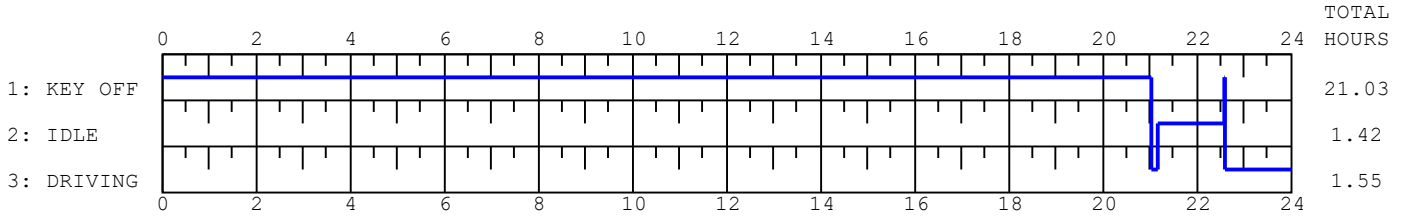
DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
Pennsylvania State Police - CARS Unit

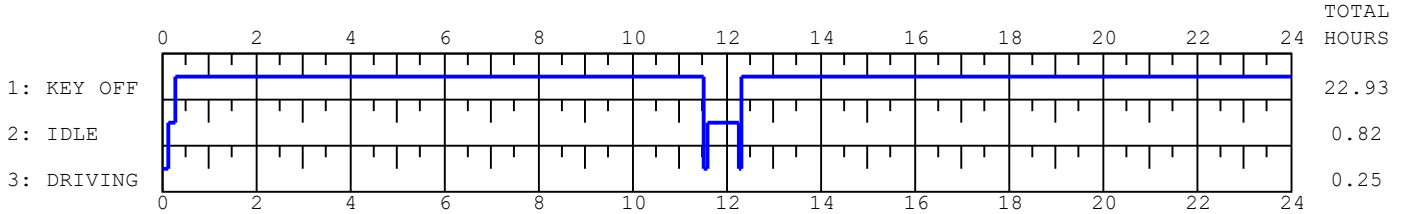
Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
Driver ID:
Engine S/N: 471928S0522912

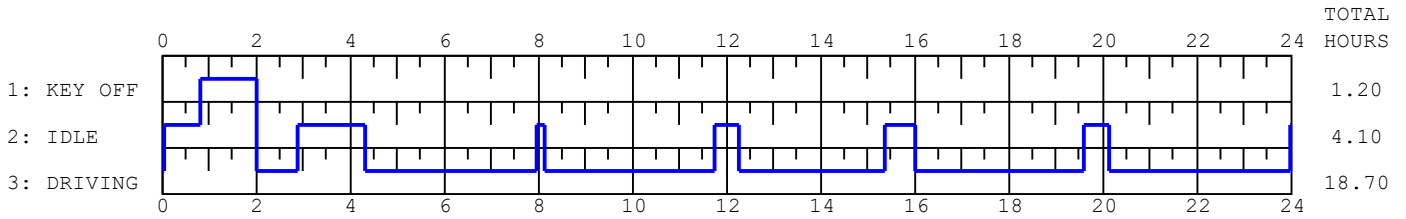
(12/7/2019)



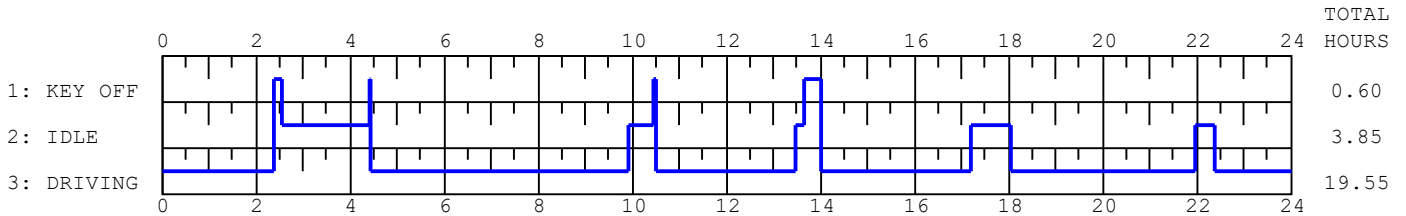
(12/6/2019)



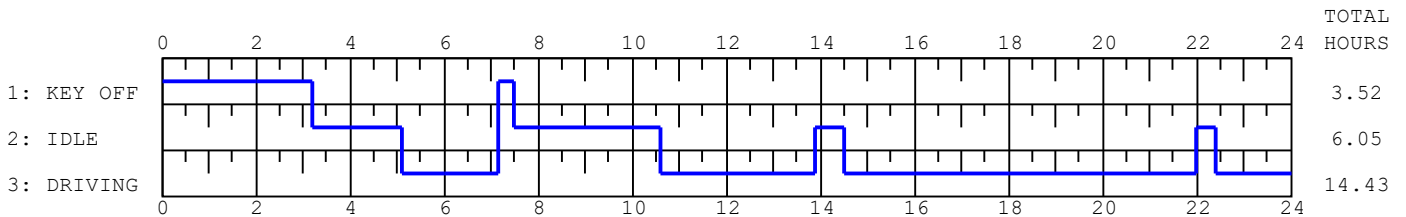
(12/5/2019)



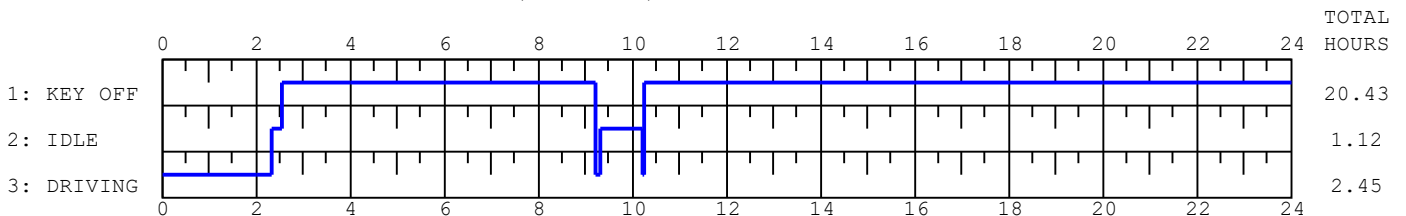
(12/4/2019)



(12/3/2019)



(12/2/2019)



DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
 Driver ID:
 Engine S/N: 471928S0522912

Date:	1/16/2020
Start Time:	11:13:21 EST
Odometer:	525683.60 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:	1/5/2020
Start Time:	00:00:00 EST
Odometer:	525484.30 mi
Distance:	199.30 mi
Fuel:	28.50 gal
Fuel Economy:	6.99 mpg
Average Speed:	66.07 mph
DEF Fluid:	1.79 gal
Trip Economy:	111.34 mpg

Total (hh:mm)	03:01	00:34	20:25
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	90	30	0
02:00-04:00	91	4	25
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:	1/4/2020
Start Time:	20:59:29 EST
Odometer:	525373.30 mi
Distance:	111.00 mi
Fuel:	14.50 gal
Fuel Economy:	7.66 mpg
Average Speed:	56.44 mph
DEF Fluid:	0.88 gal
Trip Economy:	126.36 mpg

Total (hh:mm)	01:58	01:00	21:02
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	12	46	62
22:00-24:00	106	14	0

DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
 Driver ID:
 Engine S/N: 471928S0522912

Date:	1/3/2020
Start Time:	08:38:14 EST
Odometer:	525372.40 mi
Distance:	0.90 mi
Fuel:	0.75 gal
Fuel Economy:	1.20 mpg
Average Speed:	7.71 mph
DEF Fluid:	0.00 gal
Trip Economy:	0.00 mpg

Total (hh:mm)	00:07	01:38	22:15
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	1	80	39
10:00-12:00	0	17	103
12:00-14:00	6	1	113
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:	1/2/2020
Start Time:	11:56:50 EST
Odometer:	525371.60 mi
Distance:	0.80 mi
Fuel:	0.50 gal
Fuel Economy:	1.60 mpg
Average Speed:	6.86 mph
DEF Fluid:	0.00 gal
Trip Economy:	0.00 mpg

Total (hh:mm)	00:07	00:48	23:05
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	3	117
12:00-14:00	7	45	68
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:	12/30/2019
Start Time:	00:00:00 EST
Odometer:	525176.00 mi
Distance:	195.60 mi
Fuel:	26.00 gal
Fuel Economy:	7.52 mpg
Average Speed:	58.10 mph
DEF Fluid:	1.71 gal
Trip Economy:	114.16 mpg

Total (hh:mm)	03:22	00:44	19:54
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	90	29	1
02:00-04:00	112	8	0
04:00-06:00	0	7	113
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

DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
 Driver ID:
 Engine S/N: 471928S0522912

Date:	12/29/2019
Start Time:	00:00:00 EST
Odometer:	523931.80 mi
Distance:	1244.20 mi
Fuel:	188.00 gal
Fuel Economy:	6.62 mpg
Average Speed:	62.79 mph
DEF Fluid:	10.41 gal
Trip Economy:	119.53 mpg

Total (hh:mm)	19:49	03:23	00:48
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	95	25	0
02:00-04:00	120	0	0
04:00-06:00	120	0	0
06:00-08:00	100	20	0
08:00-10:00	120	0	0
10:00-12:00	95	18	7
12:00-14:00	18	63	39
14:00-16:00	76	42	2
16:00-18:00	120	0	0
18:00-20:00	120	0	0
20:00-22:00	85	35	0
22:00-24:00	120	0	0

Date:	12/28/2019
Start Time:	20:49:37 EST
Odometer:	523889.80 mi
Distance:	42.00 mi
Fuel:	5.50 gal
Fuel Economy:	7.64 mpg
Average Speed:	38.77 mph
DEF Fluid:	0.27 gal
Trip Economy:	155.54 mpg

Total (hh:mm)	01:05	02:04	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	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	13	56	51
22:00-24:00	52	68	0

Date:	12/23/2019
Start Time:	00:00:00 EST
Odometer:	523717.40 mi
Distance:	172.40 mi
Fuel:	22.50 gal
Fuel Economy:	7.66 mpg
Average Speed:	56.52 mph
DEF Fluid:	1.60 gal
Trip Economy:	107.45 mpg

Total (hh:mm)	03:03	01:17	19:40
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	85	35	0
02:00-04:00	92	28	0
04:00-06:00	3	8	109
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	3	6	111
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: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
 Driver ID:
 Engine S/N: 471928S0522912

Date:	12/22/2019
Start Time:	00:00:00 EST
Odometer:	522505.90 mi
Distance:	1211.50 mi
Fuel:	185.50 gal
Fuel Economy:	6.53 mpg
Average Speed:	64.21 mph
DEF Fluid:	11.22 gal
Trip Economy:	108.00 mpg

Total (hh:mm)	18:52	05:03	00:05
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	95	25	0
02:00-04:00	120	0	0
04:00-06:00	100	20	0
06:00-08:00	120	0	0
08:00-10:00	110	10	0
10:00-12:00	49	69	2
12:00-14:00	9	111	0
14:00-16:00	85	32	3
16:00-18:00	120	0	0
18:00-20:00	84	36	0
20:00-22:00	120	0	0
22:00-24:00	120	0	0

Date:	12/21/2019
Start Time:	20:18:09 EST
Odometer:	522410.90 mi
Distance:	95.00 mi
Fuel:	14.25 gal
Fuel Economy:	6.67 mpg
Average Speed:	50.00 mph
DEF Fluid:	0.60 gal
Trip Economy:	157.67 mpg

Total (hh:mm)	01:54	01:47	20:19
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	21	80	19
22:00-24:00	93	27	0

Date:	12/20/2019
Start Time:	00:00:00 EST
Odometer:	522397.60 mi
Distance:	13.30 mi
Fuel:	3.00 gal
Fuel Economy:	4.43 mpg
Average Speed:	26.60 mph
DEF Fluid:	0.11 gal
Trip Economy:	115.91 mpg

Total (hh:mm)	00:30	01:40	21:50
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	23	19	78
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	1	28	91
10:00-12:00	6	53	61
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: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
 Driver ID:
 Engine S/N: 471928S0522912

Date:	12/19/2019
Start Time:	00:10:40 EST
Odometer:	521237.90 mi
Distance:	1159.70 mi
Fuel:	160.25 gal
Fuel Economy:	7.24 mpg
Average Speed:	61.85 mph
DEF Fluid:	8.39 gal
Trip Economy:	138.19 mpg

Total (hh:mm)	18:45	04:46	00:29
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	2	90	28
02:00-04:00	64	55	1
04:00-06:00	120	0	0
06:00-08:00	119	1	0
08:00-10:00	120	0	0
10:00-12:00	111	9	0
12:00-14:00	61	59	0
14:00-16:00	104	16	0
16:00-18:00	119	1	0
18:00-20:00	87	33	0
20:00-22:00	99	21	0
22:00-24:00	119	1	0

Date:	12/18/2019
Start Time:	00:00:00 EST
Odometer:	520137.70 mi
Distance:	1100.20 mi
Fuel:	167.00 gal
Fuel Economy:	6.59 mpg
Average Speed:	64.59 mph
DEF Fluid:	7.93 gal
Trip Economy:	138.70 mpg

Total (hh:mm)	17:02	06:37	00:21
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	0	120	0
02:00-04:00	3	117	0
04:00-06:00	99	21	0
06:00-08:00	118	2	0
08:00-10:00	110	10	0
10:00-12:00	77	41	2
12:00-14:00	120	0	0
14:00-16:00	106	14	0
16:00-18:00	82	38	0
18:00-20:00	107	13	0
20:00-22:00	120	0	0
22:00-24:00	80	21	19

Date:	12/17/2019
Start Time:	03:19:33 EST
Odometer:	519063.30 mi
Distance:	1074.40 mi
Fuel:	157.25 gal
Fuel Economy:	6.83 mpg
Average Speed:	61.10 mph
DEF Fluid:	6.67 gal
Trip Economy:	161.00 mpg

Total (hh:mm)	17:35	02:58	03:27
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	0	0	120
02:00-04:00	0	40	80
04:00-06:00	73	46	1
06:00-08:00	119	1	0
08:00-10:00	119	1	0
10:00-12:00	103	15	2
12:00-14:00	106	12	2
14:00-16:00	118	2	0
16:00-18:00	117	3	0
18:00-20:00	87	33	0
20:00-22:00	120	0	0
22:00-24:00	93	25	2

DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
 Driver ID:
 Engine S/N: 471928S0522912

Date:	12/16/2019
Start Time:	00:00:00 EST
Odometer:	518922.50 mi
Distance:	140.80 mi
Fuel:	19.00 gal
Fuel Economy:	7.41 mpg
Average Speed:	57.47 mph
DEF Fluid:	0.91 gal
Trip Economy:	154.53 mpg

Total (hh:mm)	02:27	01:08	20:25
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	86	32	2
02:00-04:00	54	9	57
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	7	27	86
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:	12/15/2019
Start Time:	00:00:00 EST
Odometer:	517656.70 mi
Distance:	1265.80 mi
Fuel:	216.50 gal
Fuel Economy:	5.85 mpg
Average Speed:	61.50 mph
DEF Fluid:	8.42 gal
Trip Economy:	150.38 mpg

Total (hh:mm)	20:35	03:01	00:24
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	101	19	0
02:00-04:00	120	0	0
04:00-06:00	103	17	0
06:00-08:00	120	0	0
08:00-10:00	115	5	0
10:00-12:00	69	29	22
12:00-14:00	40	78	2
14:00-16:00	119	1	0
16:00-18:00	120	0	0
18:00-20:00	120	0	0
20:00-22:00	91	29	0
22:00-24:00	117	3	0

Date:	12/14/2019
Start Time:	20:50:35 EST
Odometer:	517572.90 mi
Distance:	83.80 mi
Fuel:	13.75 gal
Fuel Economy:	6.09 mpg
Average Speed:	49.29 mph
DEF Fluid:	0.44 gal
Trip Economy:	189.85 mpg

Total (hh:mm)	01:42	01:21	20:57
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	9	58	53
22:00-24:00	93	23	4

DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
 Driver ID:
 Engine S/N: 471928S0522912

Date:	12/13/2019
Start Time:	10:40:41 EST
Odometer:	517572.00 mi
Distance:	0.90 mi
Fuel:	0.50 gal
Fuel Economy:	1.80 mpg
Average Speed:	6.75 mph
DEF Fluid:	0.00 gal
Trip Economy:	0.00 mpg

Total (hh:mm)	00:08	00:44	23:08
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	8	44	68
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:	12/12/2019
Start Time:	00:00:00 EST
Odometer:	516404.30 mi
Distance:	1167.70 mi
Fuel:	150.00 gal
Fuel Economy:	7.78 mpg
Average Speed:	61.35 mph
DEF Fluid:	6.91 gal
Trip Economy:	168.88 mpg

Total (hh:mm)	19:02	04:40	00:18
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	1	112	7
02:00-04:00	70	50	0
04:00-06:00	114	6	0
06:00-08:00	120	0	0
08:00-10:00	120	0	0
10:00-12:00	95	25	0
12:00-14:00	87	33	0
14:00-16:00	118	2	0
16:00-18:00	107	13	0
18:00-20:00	95	25	0
20:00-22:00	118	2	0
22:00-24:00	97	12	11

Date:	12/11/2019
Start Time:	00:00:00 EST
Odometer:	515304.50 mi
Distance:	1099.80 mi
Fuel:	162.00 gal
Fuel Economy:	6.79 mpg
Average Speed:	64.69 mph
DEF Fluid:	7.71 gal
Trip Economy:	142.68 mpg

Total (hh:mm)	17:00	06:03	00:57
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	7	113	0
02:00-04:00	1	119	0
04:00-06:00	112	8	0
06:00-08:00	118	2	0
08:00-10:00	108	12	0
10:00-12:00	73	26	21
12:00-14:00	120	0	0
14:00-16:00	108	12	0
16:00-18:00	87	33	0
18:00-20:00	105	15	0
20:00-22:00	120	0	0
22:00-24:00	61	23	36

DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
 Driver ID:
 Engine S/N: 471928S0522912

Date:	12/10/2019
Start Time:	03:09:28 EST
Odometer:	514234.70 mi
Distance:	1069.80 mi
Fuel:	146.25 gal
Fuel Economy:	7.31 mpg
Average Speed:	61.96 mph
DEF Fluid:	6.17 gal
Trip Economy:	173.38 mpg

Total (hh:mm)	17:16	03:30	03:14
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	0	0	120
02:00-04:00	0	50	70
04:00-06:00	77	43	0
06:00-08:00	119	1	0
08:00-10:00	120	0	0
10:00-12:00	102	18	0
12:00-14:00	106	14	0
14:00-16:00	119	1	0
16:00-18:00	109	11	0
18:00-20:00	85	35	0
20:00-22:00	108	11	1
22:00-24:00	91	26	3

Date:	12/9/2019
Start Time:	00:00:00 EST
Odometer:	514123.80 mi
Distance:	110.90 mi
Fuel:	15.75 gal
Fuel Economy:	7.04 mpg
Average Speed:	53.23 mph
DEF Fluid:	0.74 gal
Trip Economy:	149.23 mpg

Total (hh:mm)	02:05	00:37	21:18
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	114	6	0
02:00-04:00	1	2	117
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	10	29	81
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:	12/8/2019
Start Time:	00:00:00 EST
Odometer:	512831.90 mi
Distance:	1291.90 mi
Fuel:	212.00 gal
Fuel Economy:	6.09 mpg
Average Speed:	63.38 mph
DEF Fluid:	8.23 gal
Trip Economy:	156.92 mpg

Total (hh:mm)	20:23	02:51	00:46
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	99	21	0
02:00-04:00	120	0	0
04:00-06:00	100	20	0
06:00-08:00	120	0	0
08:00-10:00	111	9	0
10:00-12:00	61	18	41
12:00-14:00	87	31	2
14:00-16:00	120	0	0
16:00-18:00	120	0	0
18:00-20:00	90	30	0
20:00-22:00	120	0	0
22:00-24:00	75	42	3

DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
 Driver ID:
 Engine S/N: 471928S0522912

Date:	12/7/2019
Start Time:	20:59:34 EST
Odometer:	512754.00 mi
Distance:	77.90 mi
Fuel:	11.75 gal
Fuel Economy:	6.63 mpg
Average Speed:	50.26 mph
DEF Fluid:	0.49 gal
Trip Economy:	157.49 mpg

Total (hh:mm)	01:33	01:25	21:02
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	8	51	61
22:00-24:00	85	34	1

Date:	12/6/2019
Start Time:	00:00:00 EST
Odometer:	512752.50 mi
Distance:	1.50 mi
Fuel:	0.25 gal
Fuel Economy:	6.00 mpg
Average Speed:	6.00 mph
DEF Fluid:	0.02 gal
Trip Economy:	80.84 mpg

Total (hh:mm)	00:15	00:49	22:56
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	7	9	104
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	5	25	90
12:00-14:00	3	15	102
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:	12/5/2019
Start Time:	00:00:00 EST
Odometer:	511580.30 mi
Distance:	1172.20 mi
Fuel:	177.50 gal
Fuel Economy:	6.60 mpg
Average Speed:	62.68 mph
DEF Fluid:	8.88 gal
Trip Economy:	131.93 mpg

Total (hh:mm)	18:42	04:06	01:12
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	2	46	72
02:00-04:00	52	68	0
04:00-06:00	102	18	0
06:00-08:00	117	3	0
08:00-10:00	113	7	0
10:00-12:00	104	16	0
12:00-14:00	105	15	0
14:00-16:00	81	39	0
16:00-18:00	120	0	0
18:00-20:00	95	25	0
20:00-22:00	113	7	0
22:00-24:00	118	2	0

DDEC® Reports - Daily Engine Usage

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Date Range: 01/16/20 To 12/02/19 (EST)

Vehicle ID: X7288
 Driver ID:
 Engine S/N: 471928S0522912

Date:	12/4/2019
Start Time:	00:00:00 EST
Odometer:	510323.60 mi
Distance:	1256.70 mi
Fuel:	181.75 gal
Fuel Economy:	6.91 mpg
Average Speed:	64.28 mph
DEF Fluid:	8.90 gal
Trip Economy:	141.13 mpg

Total (hh:mm)	19:33	03:51	00:36
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	120	0	0
02:00-04:00	22	88	10
04:00-06:00	95	24	1
06:00-08:00	120	0	0
08:00-10:00	114	6	0
10:00-12:00	91	26	3
12:00-14:00	87	11	22
14:00-16:00	120	0	0
16:00-18:00	71	49	0
18:00-20:00	118	2	0
20:00-22:00	117	3	0
22:00-24:00	98	22	0

Date:	12/3/2019
Start Time:	03:10:17 EST
Odometer:	509391.60 mi
Distance:	932.00 mi
Fuel:	132.50 gal
Fuel Economy:	7.03 mpg
Average Speed:	64.57 mph
DEF Fluid:	5.84 gal
Trip Economy:	159.69 mpg

Total (hh:mm)	14:26	06:03	03:31
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	0	0	120
02:00-04:00	0	49	71
04:00-06:00	55	65	0
06:00-08:00	68	32	20
08:00-10:00	0	120	0
10:00-12:00	85	35	0
12:00-14:00	112	8	0
14:00-16:00	91	29	0
16:00-18:00	120	0	0
18:00-20:00	120	0	0
20:00-22:00	118	2	0
22:00-24:00	97	23	0

Date:	12/2/2019
Start Time:	00:00:00 EST
Odometer:	509251.70 mi
Distance:	139.90 mi
Fuel:	19.25 gal
Fuel Economy:	7.27 mpg
Average Speed:	57.10 mph
DEF Fluid:	0.86 gal
Trip Economy:	162.79 mpg

Total (hh:mm)	02:27	01:07	20:26
Hour (EST)	Drive (min)	Idle (min)	Off (min)
00:00-02:00	120	0	0
02:00-04:00	19	13	88
04:00-06:00	0	0	120
06:00-08:00	0	0	120
08:00-10:00	6	42	72
10:00-12:00	2	12	106
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 - Hard Brake

#1

Print Date: 1/16/2020 11:18 AM
Pennsylvania State Police - CARS Unit

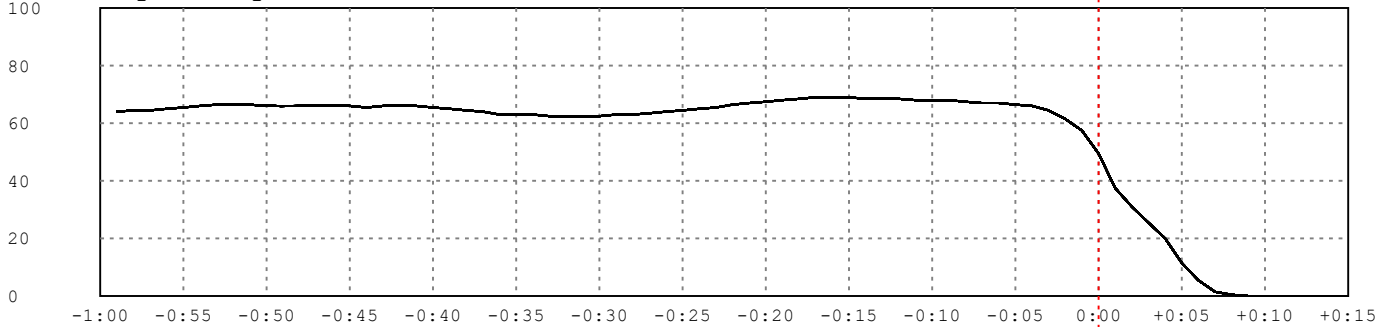
Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
Vehicle ID: X7288
Driver ID:
Odometer: 525683.6 mi
Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

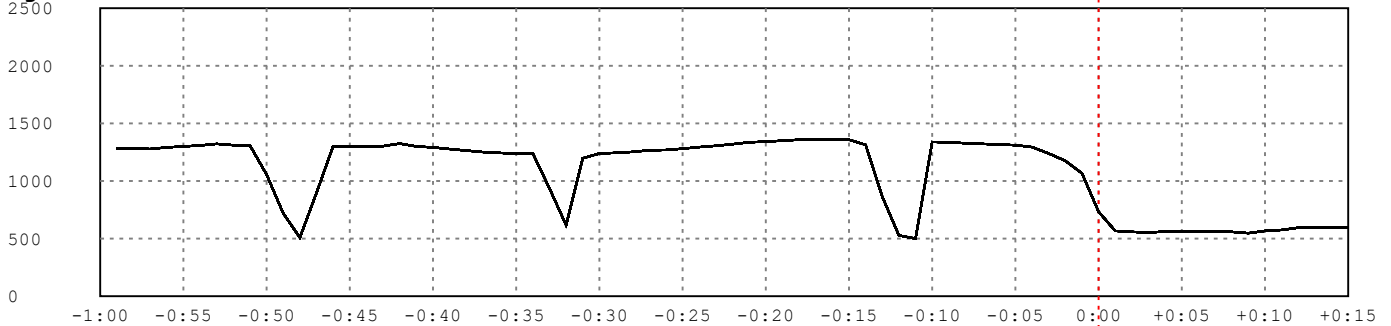
Incident Time: 01/05/20 3:30:06 (EST)

Incident Odometer: 525683.6 mi

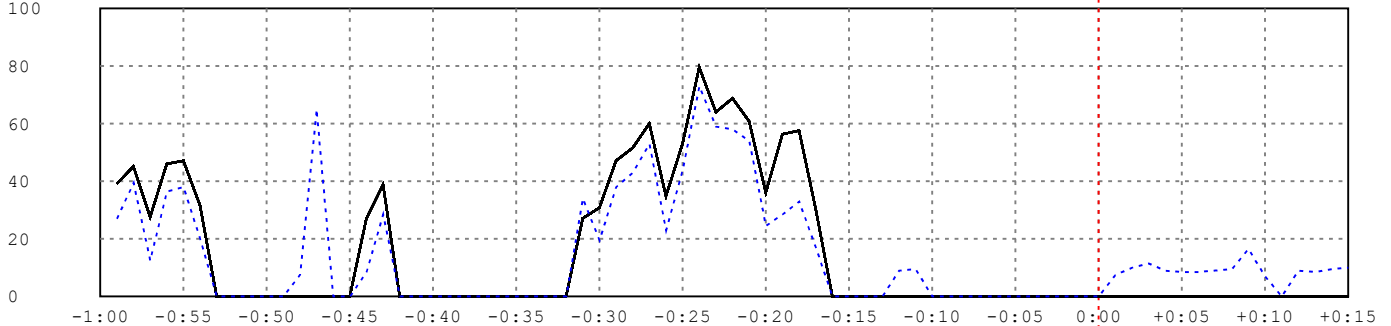
Vehicle Speed (mph)



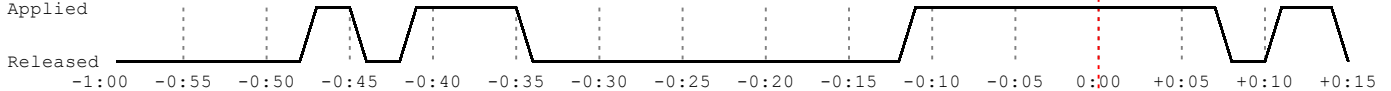
Engine RPM



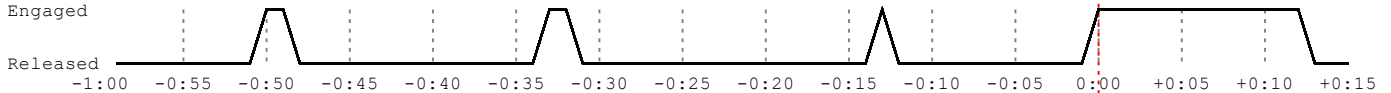
Percent



Brake



Clutch



DDEC® Reports - Hard Brake

#2

Print Date: 1/16/2020 11:18 AM
Pennsylvania State Police - CARS Unit

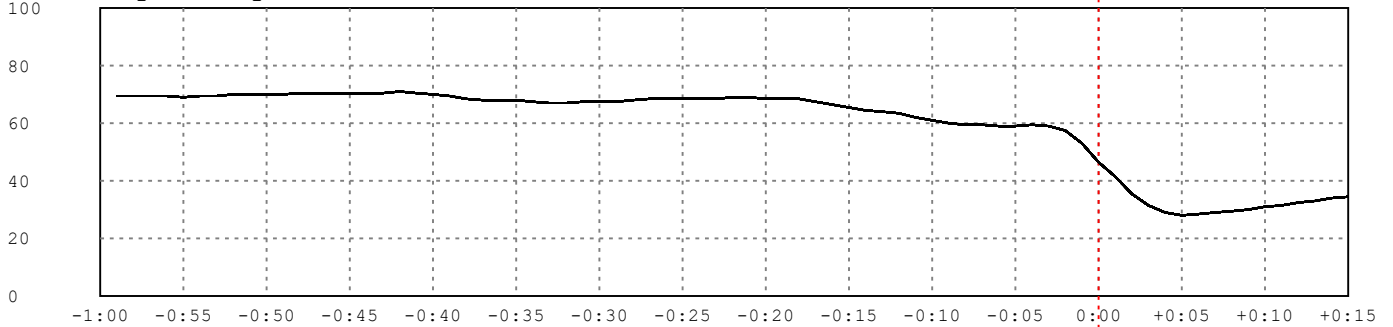
Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
Vehicle ID: X7288
Driver ID:
Odometer: 525683.6 mi
Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

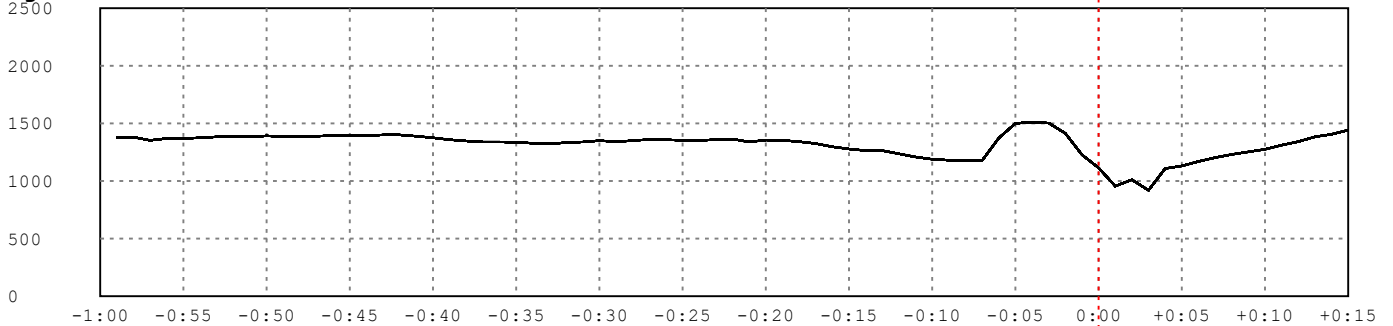
Incident Time: 11/27/19 11:25:48 (EST)

Incident Odometer: 507224.1 mi

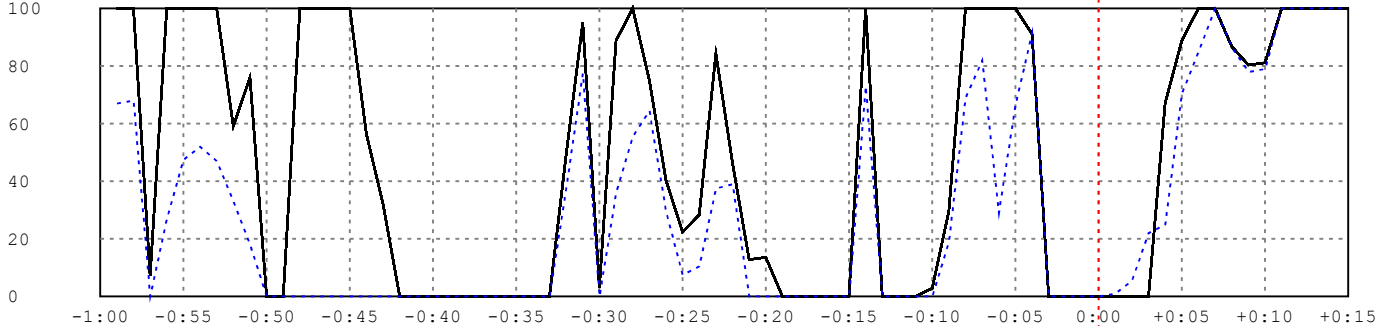
Vehicle Speed (mph)



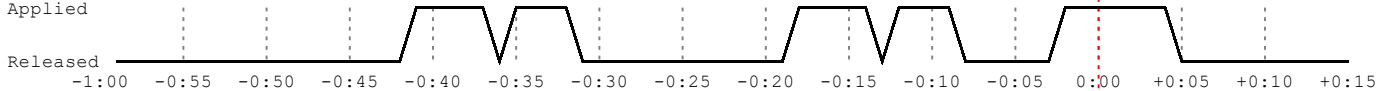
Engine RPM



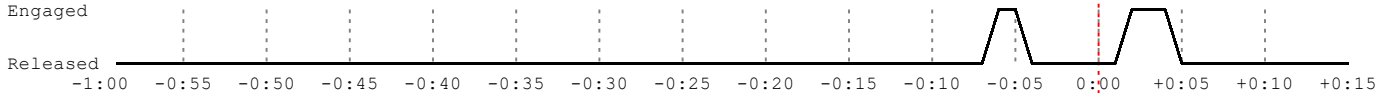
Percent



Brake



Clutch



DDEC® Reports - Hard Brake

#1

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

Incident Time: 1/5/2020 3:30:06 AM (EST) Incident Odometer: 525683.6 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-0:59	64.0	1285	No	No	27.00	39.20	No	No
-0:58	64.5	1283	No	No	39.50	45.20	No	No
-0:57	64.5	1279	No	No	12.50	27.60	No	No
-0:56	65.0	1292	No	No	36.50	46.00	No	No
-0:55	65.5	1302	No	No	38.00	47.20	No	No
-0:54	66.0	1309	No	No	20.00	31.60	No	No
-0:53	66.5	1325	No	No	0.00	0.00	No	No
-0:52	66.5	1313	No	No	0.00	0.00	No	No
-0:51	66.5	1311	No	No	0.00	0.00	No	No
-0:50	66.0	1057	No	Yes	0.00	0.00	No	No
-0:49	66.0	720	No	Yes	0.00	0.00	No	No
-0:48	66.0	511	No	No	7.50	0.00	No	No
-0:47	66.0	899	Yes	No	65.00	0.00	No	No
-0:46	66.0	1303	Yes	No	0.00	0.00	No	No
-0:45	66.0	1300	Yes	No	0.00	0.00	No	No
-0:44	65.5	1299	No	No	8.50	27.20	No	No
-0:43	66.0	1304	No	No	28.50	38.80	No	No
-0:42	66.0	1325	No	No	0.00	0.00	No	No
-0:41	66.0	1301	Yes	No	0.00	0.00	No	No
-0:40	65.5	1294	Yes	No	0.00	0.00	No	No
-0:39	65.0	1278	Yes	No	0.00	0.00	No	No
-0:38	64.5	1264	Yes	No	0.00	0.00	No	No
-0:37	64.0	1252	Yes	No	0.00	0.00	No	No
-0:36	63.0	1245	Yes	No	0.00	0.00	No	No
-0:35	63.0	1243	Yes	No	0.00	0.00	No	No
-0:34	63.0	1240	No	No	0.00	0.00	No	No
-0:33	62.5	937	No	Yes	0.00	0.00	No	No
-0:32	62.5	618	No	Yes	0.00	0.00	No	No
-0:31	62.5	1200	No	No	34.00	27.20	No	No
-0:30	62.5	1240	No	No	19.50	30.80	No	No
-0:29	63.0	1247	No	No	38.00	47.20	No	No
-0:28	63.0	1255	No	No	43.00	51.60	No	No
-0:27	63.5	1267	No	No	53.00	60.00	No	No
-0:26	64.0	1270	No	No	23.00	34.80	No	No
-0:25	64.5	1283	No	No	44.00	53.20	No	No
-0:24	65.0	1295	No	No	73.00	79.60	No	No
-0:23	65.5	1306	No	No	59.00	64.00	No	No
-0:22	66.5	1321	No	No	58.00	68.80	No	No
-0:21	67.0	1338	No	No	54.00	60.80	No	No
-0:20	67.5	1344	No	No	24.50	36.00	No	No

DDEC® Reports - Hard Brake

#1

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Incident Time: 1/5/2020 3:30:06 AM (EST) Incident Odometer: 525683.6 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-0:19	68.0	1353	No	No	28.50	56.40	No	No
-0:18	68.5	1360	No	No	33.00	57.60	No	No
-0:17	69.0	1365	No	No	17.00	30.40	No	No
-0:16	69.0	1363	No	No	0.00	0.00	No	No
-0:15	69.0	1359	No	No	0.00	0.00	No	No
-0:14	68.5	1315	No	No	0.00	0.00	No	No
-0:13	68.5	864	No	Yes	0.00	0.00	No	No
-0:12	68.5	530	No	No	9.00	0.00	No	No
-0:11	68.0	500	Yes	No	9.50	0.00	No	No
-0:10	68.0	1339	Yes	No	0.00	0.00	No	No
-0:09	68.0	1337	Yes	No	0.00	0.00	No	No
-0:08	67.5	1329	Yes	No	0.00	0.00	No	No
-0:07	67.0	1324	Yes	No	0.00	0.00	No	No
-0:06	67.0	1318	Yes	No	0.00	0.00	No	No
-0:05	66.5	1312	Yes	No	0.00	0.00	No	No
-0:04	66.0	1296	Yes	No	0.00	0.00	No	No
-0:03	64.5	1241	Yes	No	0.00	0.00	No	No
-0:02	61.5	1176	Yes	No	0.00	0.00	No	No
-0:01	57.5	1068	Yes	No	0.00	0.00	No	No
0:00	49.5	734	Yes	Yes	0.00	0.00	No	No
+0:01	37.5	568	Yes	Yes	7.50	0.00	No	No
+0:02	31.0	559	Yes	Yes	10.00	0.00	No	No
+0:03	25.5	555	Yes	Yes	11.50	0.00	No	No
+0:04	20.0	563	Yes	Yes	9.00	0.00	No	No
+0:05	11.5	565	Yes	Yes	8.50	0.00	No	No
+0:06	5.5	566	Yes	Yes	8.50	0.00	No	No
+0:07	1.5	563	Yes	Yes	9.00	0.00	No	No
+0:08	0.5	560	No	Yes	9.50	0.00	No	No
+0:09	0.0	547	No	Yes	16.50	0.00	No	No
+0:10	0.0	568	No	Yes	7.00	0.00	No	No
+0:11	0.0	576	Yes	Yes	0.00	0.00	No	No
+0:12	0.0	595	Yes	Yes	9.00	0.00	No	No
+0:13	0.0	599	Yes	No	8.50	0.00	No	No
+0:14	0.0	597	Yes	No	9.50	0.00	No	No
+0:15	0.0	597	No	No	10.00	0.00	No	No

DDEC® Reports - Hard Brake

#2

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

Incident Time: 11/27/2019 11:25:48 AM (EST) Incident Odometer: 507224.1 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-0:59	69.5	1379	No	No	67.00	100.00	No	No
-0:58	69.5	1381	No	No	68.00	100.00	No	No
-0:57	69.5	1354	No	No	0.00	7.20	No	No
-0:56	69.5	1371	No	No	27.00	100.00	No	No
-0:55	69.0	1371	No	No	47.50	100.00	No	No
-0:54	69.5	1376	No	No	52.00	100.00	No	No
-0:53	69.5	1384	No	No	47.00	100.00	No	No
-0:52	70.0	1385	No	No	33.00	59.20	No	No
-0:51	70.0	1386	No	No	18.00	76.00	No	No
-0:50	70.0	1393	No	No	0.00	0.00	No	No
-0:49	70.0	1389	No	No	0.00	0.00	No	No
-0:48	70.5	1391	No	No	0.00	100.00	No	No
-0:47	70.5	1391	No	No	0.00	100.00	No	No
-0:46	70.5	1396	No	No	0.00	100.00	No	No
-0:45	70.5	1396	No	No	0.00	100.00	No	No
-0:44	70.5	1395	No	No	0.00	56.40	No	No
-0:43	70.5	1401	No	No	0.00	32.00	No	No
-0:42	71.0	1402	No	No	0.00	0.00	No	No
-0:41	70.5	1390	Yes	No	0.00	0.00	No	No
-0:40	70.0	1378	Yes	No	0.00	0.00	No	No
-0:39	69.5	1360	Yes	No	0.00	0.00	No	No
-0:38	68.5	1348	Yes	No	0.00	0.00	No	No
-0:37	68.0	1341	Yes	No	0.00	0.00	No	No
-0:36	68.0	1340	No	No	0.00	0.00	No	No
-0:35	68.0	1338	Yes	No	0.00	0.00	No	No
-0:34	67.5	1330	Yes	No	0.00	0.00	No	No
-0:33	67.0	1323	Yes	No	0.00	0.00	No	No
-0:32	67.0	1335	Yes	No	37.50	49.20	No	No
-0:31	67.5	1340	No	No	77.50	95.20	No	No
-0:30	67.5	1352	No	No	0.00	3.20	No	No
-0:29	67.5	1344	No	No	36.00	88.80	No	No
-0:28	68.0	1352	No	No	55.50	100.00	No	No
-0:27	68.5	1361	No	No	64.50	75.20	No	No
-0:26	68.5	1359	No	No	29.50	40.40	No	No
-0:25	68.5	1354	No	No	7.50	22.40	No	No
-0:24	68.5	1355	No	No	10.50	28.40	No	No
-0:23	68.5	1363	No	No	37.50	84.40	No	No
-0:22	69.0	1366	No	No	39.00	46.40	No	No
-0:21	69.0	1340	No	No	0.00	12.80	No	No
-0:20	68.5	1356	No	No	0.00	13.60	No	No

DDEC® Reports - Hard Brake

#2

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Incident Time: 11/27/2019 11:25:48 AM (EST) Incident Odometer: 507224.1 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-0:19	68.5	1353	No	No	0.00	0.00	No	No
-0:18	68.5	1344	Yes	No	0.00	0.00	No	No
-0:17	67.5	1327	Yes	No	0.00	0.00	No	No
-0:16	66.5	1299	Yes	No	0.00	0.00	No	No
-0:15	65.5	1279	Yes	No	0.00	0.00	No	No
-0:14	64.5	1265	Yes	No	73.00	100.00	No	No
-0:13	64.0	1267	No	No	0.00	0.00	No	No
-0:12	63.5	1237	Yes	No	0.00	0.00	No	No
-0:11	62.0	1208	Yes	No	0.00	0.00	No	No
-0:10	61.0	1191	Yes	No	0.00	2.80	No	No
-0:09	60.0	1182	Yes	No	19.00	29.60	No	No
-0:08	59.5	1181	No	No	69.00	100.00	No	No
-0:07	59.5	1178	No	No	82.00	100.00	No	No
-0:06	59.0	1374	No	Yes	29.00	100.00	No	No
-0:05	59.0	1502	No	Yes	66.50	100.00	No	No
-0:04	59.5	1513	No	No	91.50	91.20	No	No
-0:03	59.0	1505	No	No	0.00	0.00	No	No
-0:02	57.5	1416	Yes	No	0.00	0.00	No	No
-0:01	53.0	1228	Yes	No	0.00	0.00	No	No
0:00	46.5	1116	Yes	No	0.00	0.00	No	No
+0:01	41.5	957	Yes	No	1.00	0.00	No	No
+0:02	35.5	1012	Yes	Yes	5.50	0.00	No	No
+0:03	31.5	920	Yes	Yes	22.00	0.00	No	No
+0:04	29.0	1109	Yes	Yes	25.00	67.20	No	No
+0:05	28.0	1133	No	No	70.50	88.80	No	No
+0:06	28.5	1171	No	No	85.00	100.00	No	No
+0:07	29.0	1204	No	No	100.00	100.00	No	No
+0:08	29.5	1233	No	No	86.50	86.80	No	No
+0:09	30.0	1254	No	No	78.00	80.40	No	No
+0:10	31.0	1275	No	No	79.00	81.20	No	No
+0:11	31.5	1313	No	No	100.00	100.00	No	No
+0:12	32.5	1344	No	No	100.00	100.00	No	No
+0:13	33.0	1384	No	No	100.00	100.00	No	No
+0:14	34.0	1406	No	No	100.00	100.00	No	No
+0:15	34.5	1443	No	No	100.00	100.00	No	No

DDEC® Reports - Last Stop Record

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

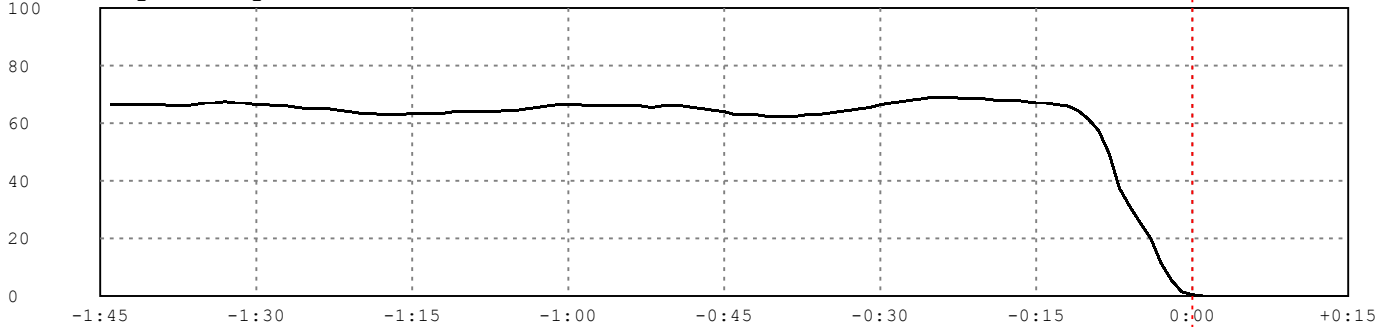
Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

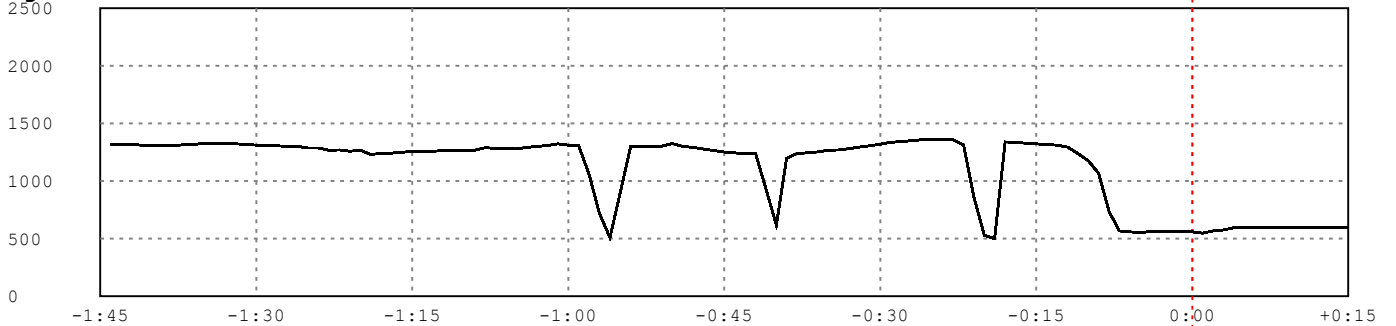
Last Stop Time: 01/05/20 3:30:14 (EST)

Last Stop Odometer: 525683.6 mi

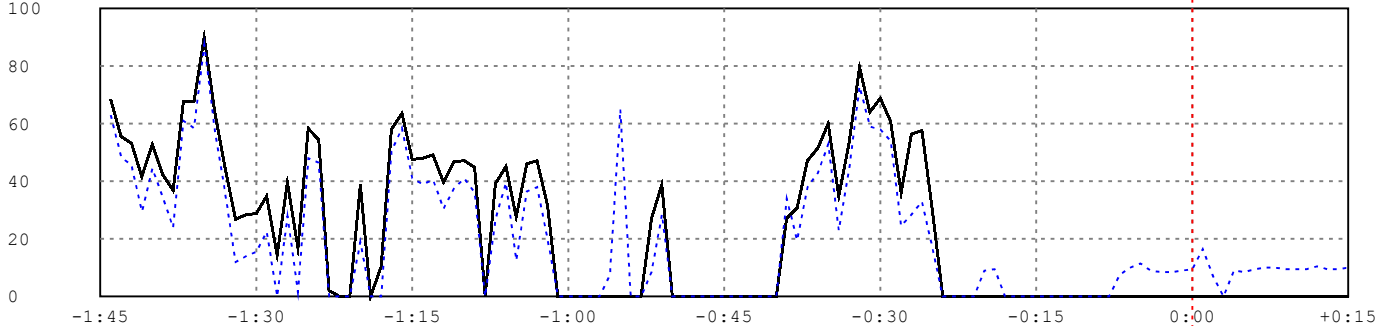
Vehicle Speed (mph)



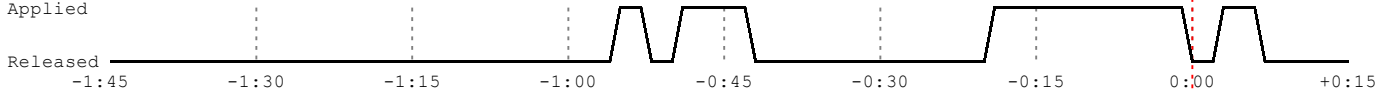
Engine RPM



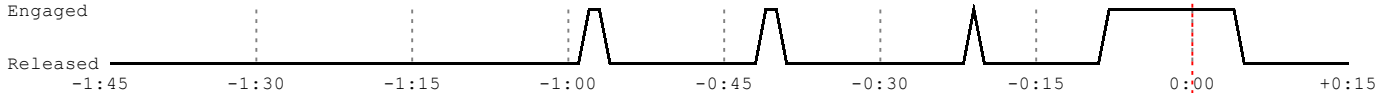
Percent



Brake



Clutch



DDEC® Reports - Last Stop Record

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

Last Stop Time: 1/5/2020 3:30:14 AM (EST) Last Stop Odometer: 525683.6 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-1:44	66.5	1314	No	No	63.00	68.40	No	No
-1:43	66.5	1315	No	No	48.50	55.60	No	No
-1:42	66.5	1319	No	No	45.50	53.20	No	No
-1:41	66.5	1313	No	No	29.50	41.60	No	No
-1:40	66.5	1313	No	No	44.50	52.80	No	No
-1:39	66.5	1311	No	No	34.50	42.40	No	No
-1:38	66.0	1309	No	No	24.00	36.80	No	No
-1:37	66.0	1315	No	No	61.00	67.60	No	No
-1:36	66.5	1318	No	No	58.50	67.60	No	No
-1:35	67.0	1328	No	No	87.50	90.00	No	No
-1:34	67.0	1329	No	No	58.00	64.00	No	No
-1:33	67.5	1328	No	No	36.00	44.80	No	No
-1:32	67.0	1325	No	No	12.00	26.80	No	No
-1:31	67.0	1318	No	No	14.00	28.40	No	No
-1:30	66.5	1312	No	No	15.50	28.80	No	No
-1:29	66.5	1309	No	No	22.50	34.80	No	No
-1:28	66.0	1306	No	No	0.00	14.40	No	No
-1:27	66.0	1301	No	No	28.00	39.60	No	No
-1:26	65.5	1300	No	No	1.50	16.80	No	No
-1:25	65.0	1287	No	No	48.00	58.40	No	No
-1:24	65.0	1289	No	No	46.50	54.40	No	No
-1:23	65.0	1267	No	No	0.00	2.00	No	No
-1:22	64.5	1272	No	No	0.00	0.00	No	No
-1:21	64.0	1261	No	No	0.00	0.00	No	No
-1:20	63.5	1267	No	No	19.00	38.80	No	No
-1:19	63.5	1231	No	No	0.00	0.00	No	No
-1:18	63.0	1241	No	No	0.00	10.40	No	No
-1:17	63.0	1243	No	No	50.50	58.00	No	No
-1:16	63.0	1253	No	No	58.50	63.60	No	No
-1:15	63.5	1256	No	No	41.00	47.60	No	No
-1:14	63.5	1258	No	No	39.00	48.00	No	No
-1:13	63.5	1260	No	No	40.50	49.20	No	No
-1:12	63.5	1266	No	No	30.50	39.60	No	No
-1:11	64.0	1265	No	No	37.50	46.80	No	No
-1:10	64.0	1269	No	No	41.00	47.20	No	No
-1:09	64.0	1269	No	No	36.00	44.80	No	No
-1:08	64.0	1290	No	No	0.00	0.00	No	No
-1:07	64.0	1285	No	No	27.00	39.20	No	No
-1:06	64.5	1283	No	No	39.50	45.20	No	No
-1:05	64.5	1279	No	No	12.50	27.60	No	No

DDEC® Reports - Last Stop Record

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Last Stop Time: 1/5/2020 3:30:14 AM (EST) Last Stop Odometer: 525683.6 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-1:04	65.0	1292	No	No	36.50	46.00	No	No
-1:03	65.5	1302	No	No	38.00	47.20	No	No
-1:02	66.0	1309	No	No	20.00	31.60	No	No
-1:01	66.5	1325	No	No	0.00	0.00	No	No
-1:00	66.5	1313	No	No	0.00	0.00	No	No
-0:59	66.5	1311	No	No	0.00	0.00	No	No
-0:58	66.0	1057	No	Yes	0.00	0.00	No	No
-0:57	66.0	720	No	Yes	0.00	0.00	No	No
-0:56	66.0	511	No	No	7.50	0.00	No	No
-0:55	66.0	899	Yes	No	65.00	0.00	No	No
-0:54	66.0	1303	Yes	No	0.00	0.00	No	No
-0:53	66.0	1300	Yes	No	0.00	0.00	No	No
-0:52	65.5	1299	No	No	8.50	27.20	No	No
-0:51	66.0	1304	No	No	28.50	38.80	No	No
-0:50	66.0	1325	No	No	0.00	0.00	No	No
-0:49	66.0	1301	Yes	No	0.00	0.00	No	No
-0:48	65.5	1294	Yes	No	0.00	0.00	No	No
-0:47	65.0	1278	Yes	No	0.00	0.00	No	No
-0:46	64.5	1264	Yes	No	0.00	0.00	No	No
-0:45	64.0	1252	Yes	No	0.00	0.00	No	No
-0:44	63.0	1245	Yes	No	0.00	0.00	No	No
-0:43	63.0	1243	Yes	No	0.00	0.00	No	No
-0:42	63.0	1240	No	No	0.00	0.00	No	No
-0:41	62.5	937	No	Yes	0.00	0.00	No	No
-0:40	62.5	618	No	Yes	0.00	0.00	No	No
-0:39	62.5	1200	No	No	34.00	27.20	No	No
-0:38	62.5	1240	No	No	19.50	30.80	No	No
-0:37	63.0	1247	No	No	38.00	47.20	No	No
-0:36	63.0	1255	No	No	43.00	51.60	No	No
-0:35	63.5	1267	No	No	53.00	60.00	No	No
-0:34	64.0	1270	No	No	23.00	34.80	No	No
-0:33	64.5	1283	No	No	44.00	53.20	No	No
-0:32	65.0	1295	No	No	73.00	79.60	No	No
-0:31	65.5	1306	No	No	59.00	64.00	No	No
-0:30	66.5	1321	No	No	58.00	68.80	No	No
-0:29	67.0	1338	No	No	54.00	60.80	No	No
-0:28	67.5	1344	No	No	24.50	36.00	No	No
-0:27	68.0	1353	No	No	28.50	56.40	No	No
-0:26	68.5	1360	No	No	33.00	57.60	No	No
-0:25	69.0	1365	No	No	17.00	30.40	No	No

DDEC® Reports - Last Stop Record

Print Date: 1/16/2020 11:18 AM
 Pennsylvania State Police - CARS Unit

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Last Stop Time: 1/5/2020 3:30:14 AM (EST) Last Stop Odometer: 525683.6 mi

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Brake	Clutch	Engine Load (%)	Throttle (%)	Cruise	Diag. Code
-0:24	69.0	1363	No	No	0.00	0.00	No	No
-0:23	69.0	1359	No	No	0.00	0.00	No	No
-0:22	68.5	1315	No	No	0.00	0.00	No	No
-0:21	68.5	864	No	Yes	0.00	0.00	No	No
-0:20	68.5	530	No	No	9.00	0.00	No	No
-0:19	68.0	500	Yes	No	9.50	0.00	No	No
-0:18	68.0	1339	Yes	No	0.00	0.00	No	No
-0:17	68.0	1337	Yes	No	0.00	0.00	No	No
-0:16	67.5	1329	Yes	No	0.00	0.00	No	No
-0:15	67.0	1324	Yes	No	0.00	0.00	No	No
-0:14	67.0	1318	Yes	No	0.00	0.00	No	No
-0:13	66.5	1312	Yes	No	0.00	0.00	No	No
-0:12	66.0	1296	Yes	No	0.00	0.00	No	No
-0:11	64.5	1241	Yes	No	0.00	0.00	No	No
-0:10	61.5	1176	Yes	No	0.00	0.00	No	No
-0:09	57.5	1068	Yes	No	0.00	0.00	No	No
-0:08	49.5	734	Yes	Yes	0.00	0.00	No	No
-0:07	37.5	568	Yes	Yes	7.50	0.00	No	No
-0:06	31.0	559	Yes	Yes	10.00	0.00	No	No
-0:05	25.5	555	Yes	Yes	11.50	0.00	No	No
-0:04	20.0	563	Yes	Yes	9.00	0.00	No	No
-0:03	11.5	565	Yes	Yes	8.50	0.00	No	No
-0:02	5.5	566	Yes	Yes	8.50	0.00	No	No
-0:01	1.5	563	Yes	Yes	9.00	0.00	No	No
0:00	0.5	560	No	Yes	9.50	0.00	No	No
+0:01	0.0	547	No	Yes	16.50	0.00	No	No
+0:02	0.0	568	No	Yes	7.00	0.00	No	No
+0:03	0.0	576	Yes	Yes	0.00	0.00	No	No
+0:04	0.0	595	Yes	Yes	9.00	0.00	No	No
+0:05	0.0	599	Yes	No	8.50	0.00	No	No
+0:06	0.0	597	Yes	No	9.50	0.00	No	No
+0:07	0.0	597	No	No	10.00	0.00	No	No
+0:08	0.0	598	No	No	10.00	0.00	No	No
+0:09	0.0	600	No	No	9.50	0.00	No	No
+0:10	0.0	599	No	No	9.50	0.00	No	No
+0:11	0.0	600	No	No	9.50	0.00	No	No
+0:12	0.0	598	No	No	10.50	0.00	No	No
+0:13	0.0	600	No	No	9.50	0.00	No	No
+0:14	0.0	600	No	No	9.50	0.00	No	No
+0:15	0.0	600	No	No	10.00	0.00	No	No

DDEC® Reports - Diagnostic Records

#1

File Name: 011620CARSAC.XTR
 Print Date: 1/16/2020 11:18 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

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: [3216/10] - MU_NOX_INTRU_IDLE
Diag. Time: 1/16/2020 11:13:22 AM (EST)

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Boost Press (psi)	Oil Press (psi)	Fuel Press (psi)
11:13:22	0.0	0	0.0	0.0	0.0
11:13:17	0.0	0	0.0	0.0	0.0
11:13:12	0.0	0	0.0	0.0	0.0
11:13:07	0.0	0	0.0	0.0	0.0
11:13:02	0.0	0	0.0	0.0	0.0
11:12:57	0.0	0	0.0	0.0	0.0
11:12:52	0.0	0	0.0	0.0	0.0
11:12:47	0.0	0	0.0	0.0	0.0
11:12:42	0.0	0	0.0	0.0	0.0
11:12:37	0.0	0	0.0	0.0	0.0
11:12:32	0.0	0	0.0	0.0	0.0
11:12:27	0.0	0	0.0	0.0	0.0

Time	Coolant Temp (°F)	Oil Temp (°F)	Fuel Temp (°F)	Engine Load (%)	Throttle (% throttle)
11:13:22	-	-	-	0.0	0.0
11:13:17	-	-	-	0.0	0.0
11:13:12	-	-	-	0.0	0.0
11:13:07	-	-	-	0.0	0.0
11:13:02	-	-	-	0.0	0.0
11:12:57	-	-	-	0.0	0.0
11:12:52	-	-	-	0.0	0.0
11:12:47	-	-	-	0.0	0.0
11:12:42	-	-	-	0.0	0.0
11:12:37	-	-	-	0.0	0.0
11:12:32	-	-	-	0.0	0.0
11:12:27	-	-	-	0.0	0.0

Time	Eng. Brake (cylinders)	Cruise	Accel Switch	Brake Switch	Clutch Switch
11:13:22	Off	No	No	No	No
11:13:17	Off	No	No	No	No
11:13:12	Off	No	No	No	No
11:13:07	Off	No	No	No	No
11:13:02	Off	No	No	No	No
11:12:57	Off	No	No	No	No
11:12:52	Off	No	No	No	No
11:12:47	Off	No	No	No	No
11:12:42	Off	No	No	No	No
11:12:37	Off	No	No	No	No
11:12:32	Off	No	No	No	No
11:12:27	Off	No	No	No	No

DDEC® Reports - Diagnostic Records

#2

File Name: 011620CARSAC.XTR
 Print Date: 1/16/2020 11:18 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

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: [3216/16] - NOX Inlet Sensor Plausibility Error High
Diag. Time: 1/16/2020 11:13:22 AM (EST)

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Boost Press (psi)	Oil Press (psi)	Fuel Press (psi)
11:13:22	0.0	0	0.0	0.0	0.0
11:13:17	0.0	0	0.0	0.0	0.0
11:13:12	0.0	0	0.0	0.0	0.0
11:13:07	0.0	0	0.0	0.0	0.0
11:13:02	0.0	0	0.0	0.0	0.0
11:12:57	0.0	0	0.0	0.0	0.0
11:12:52	0.0	0	0.0	0.0	0.0
11:12:47	0.0	0	0.0	0.0	0.0
11:12:42	0.0	0	0.0	0.0	0.0
11:12:37	0.0	0	0.0	0.0	0.0
11:12:32	0.0	0	0.0	0.0	0.0
11:12:27	0.0	0	0.0	0.0	0.0

Time	Coolant Temp (°F)	Oil Temp (°F)	Fuel Temp (°F)	Engine Load (%)	Throttle (% throttle)
11:13:22	-	-	-	0.0	0.0
11:13:17	-	-	-	0.0	0.0
11:13:12	-	-	-	0.0	0.0
11:13:07	-	-	-	0.0	0.0
11:13:02	-	-	-	0.0	0.0
11:12:57	-	-	-	0.0	0.0
11:12:52	-	-	-	0.0	0.0
11:12:47	-	-	-	0.0	0.0
11:12:42	-	-	-	0.0	0.0
11:12:37	-	-	-	0.0	0.0
11:12:32	-	-	-	0.0	0.0
11:12:27	-	-	-	0.0	0.0

Time	Eng. Brake (cylinders)	Cruise	Accel Switch	Brake Switch	Clutch Switch
11:13:22	Off	No	No	No	No
11:13:17	Off	No	No	No	No
11:13:12	Off	No	No	No	No
11:13:07	Off	No	No	No	No
11:13:02	Off	No	No	No	No
11:12:57	Off	No	No	No	No
11:12:52	Off	No	No	No	No
11:12:47	Off	No	No	No	No
11:12:42	Off	No	No	No	No
11:12:37	Off	No	No	No	No
11:12:32	Off	No	No	No	No
11:12:27	Off	No	No	No	No

DDEC® Reports - Diagnostic Records

#3

File Name: 011620CARSAC.XTR
 Print Date: 1/16/2020 11:18 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

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: [61620/16] - Unknown Diagnostic Code
Diag. Time: 1/16/2020 11:13:22 AM (EST)

Time	Vehicle Speed (mph)	Engine Speed (rpm)	Boost Press (psi)	Oil Press (psi)	Fuel Press (psi)
11:13:22	0.0	0	0.0	0.0	0.0
11:13:17	0.0	0	0.0	0.0	0.0
11:13:12	0.0	0	0.0	0.0	0.0
11:13:07	0.0	0	0.0	0.0	0.0
11:13:02	0.0	0	0.0	0.0	0.0
11:12:57	0.0	0	0.0	0.0	0.0
11:12:52	0.0	0	0.0	0.0	0.0
11:12:47	0.0	0	0.0	0.0	0.0
11:12:42	0.0	0	0.0	0.0	0.0
11:12:37	0.0	0	0.0	0.0	0.0
11:12:32	0.0	0	0.0	0.0	0.0
11:12:27	0.0	0	0.0	0.0	0.0

Time	Coolant Temp (°F)	Oil Temp (°F)	Fuel Temp (°F)	Engine Load (%)	Throttle (% throttle)
11:13:22	-	-	-	0.0	0.0
11:13:17	-	-	-	0.0	0.0
11:13:12	-	-	-	0.0	0.0
11:13:07	-	-	-	0.0	0.0
11:13:02	-	-	-	0.0	0.0
11:12:57	-	-	-	0.0	0.0
11:12:52	-	-	-	0.0	0.0
11:12:47	-	-	-	0.0	0.0
11:12:42	-	-	-	0.0	0.0
11:12:37	-	-	-	0.0	0.0
11:12:32	-	-	-	0.0	0.0
11:12:27	-	-	-	0.0	0.0

Time	Eng. Brake (cylinders)	Cruise	Accel Switch	Brake Switch	Clutch Switch
11:13:22	Off	No	No	No	No
11:13:17	Off	No	No	No	No
11:13:12	Off	No	No	No	No
11:13:07	Off	No	No	No	No
11:13:02	Off	No	No	No	No
11:12:57	Off	No	No	No	No
11:12:52	Off	No	No	No	No
11:12:47	Off	No	No	No	No
11:12:42	Off	No	No	No	No
11:12:37	Off	No	No	No	No
11:12:32	Off	No	No	No	No
11:12:27	Off	No	No	No	No

DDEC® Reports - Transmission Trip

File Name: 011620CARSAC.XTR
 Print Date: 1/16/2020 11:18 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Driving Economy	6.96 mpg	Idle Percent	22.54 %
Avg Drive Load	50 %	Idle Fuel	66.06 gal
Avg Vehicle Speed	61.7 mph	Parked Regen Time	0:59:57

Economy Mode 78.2 % in mode

Time	327:46:57
Distance	13930.9 mi
Fuel	2036.38 gal
Shift Count	13630
Kickdown Time	0:00:00
Kickdown Count	0
Suggestive Shift Count	431

Launching

Launch Count	635
Coast Down Re-Engage Cnt	25

eCoast

Total Time	3:08:17
Total Distance	194.4 mi
Cruise Time	0:00:17
Cruise Percent	0.2 %
Cruise Distance	0.3 mi
Accelerator Time	3:08:00
Accelerator Percent	99.8 %
Accelerator Distance	194.1 mi

Performance Mode 0.0 % in mode

Time	0:00:00
Distance	0.0 mi
Fuel	0.00 gal
Shift Count	0
Kickdown Time	0:00:00
Kickdown Count	0
Suggestive Shift Count	0

Clutch Overload/Clutch Overtemp

Overtemp Pre-Warn Count	0
Overtemp Warn Count	0
Warning	-
Pre-Warn Time	0:00:00

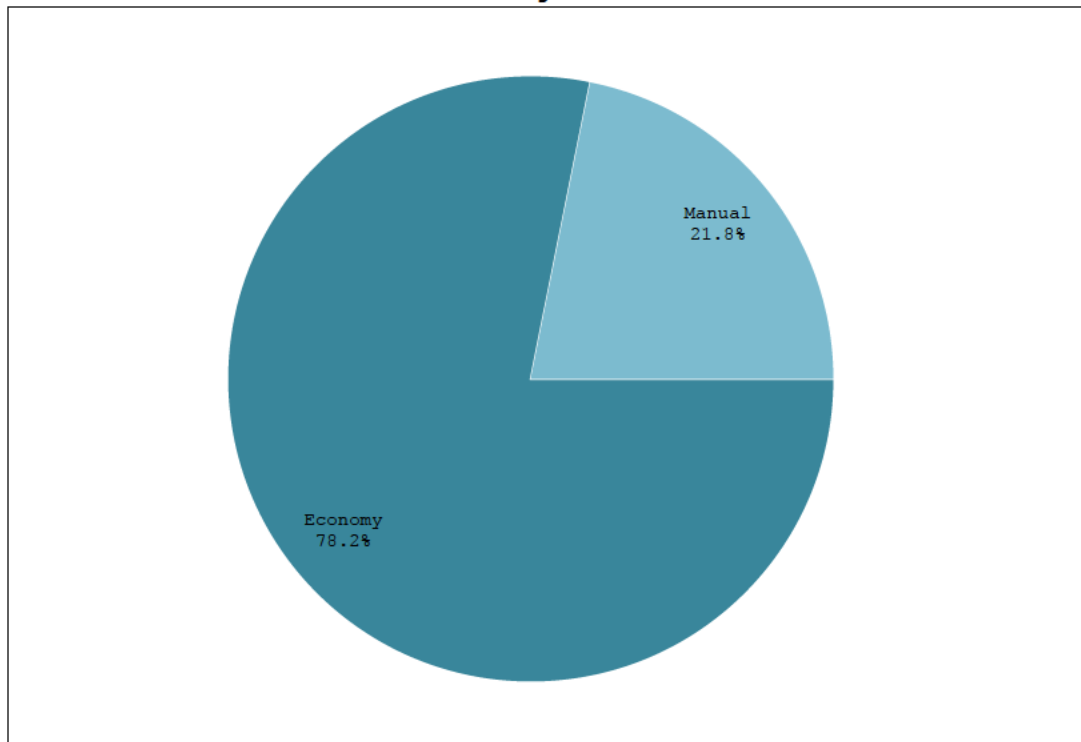
Manual Mode 21.8 % in mode

Time	91:36:17
Distance	6050.9 mi
Fuel	900.88 gal
Shift Count	1234

Creep Mode

Creep Mode time	3:30:23
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Time Percentage in Each Mode

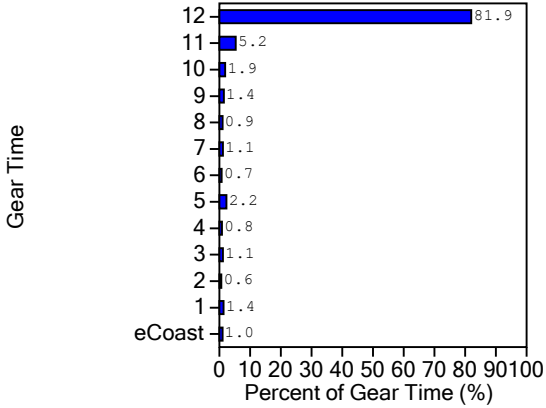


DDEC® Reports - Transmission Trip

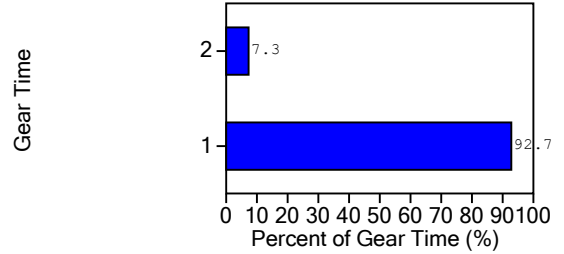
File Name: 011620CARSAC.XTR
 Print Date: 1/16/2020 11:18 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

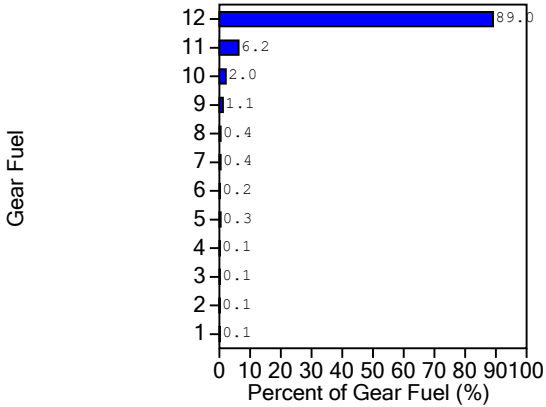
Forward Gear Time Histogram



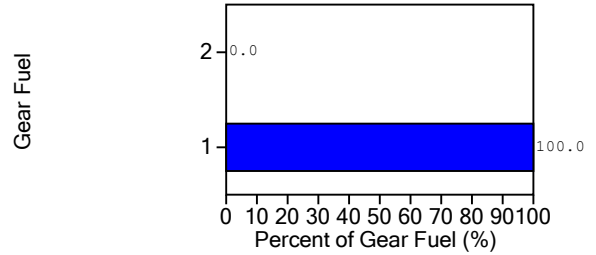
Reverse Gear Time Histogram



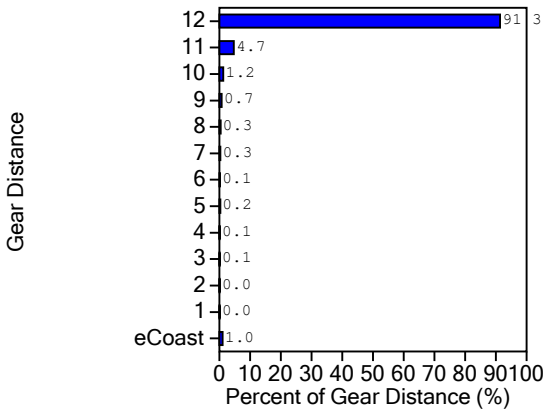
Forward Gear Fuel Histogram



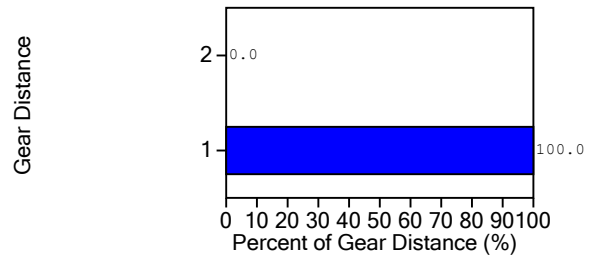
Reverse Gear Fuel Histogram



Forward Gear Distance Histogram



Reverse Gear Distance Histogram



DDEC® Reports - Monthly Transmission Trip

Print Date: 1/16/2020 11:18 AM

Pennsylvania State Police - CARS Unit

Partial Month: January, 2020 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	312.0 mi	Trip Time	9:14:37
Trip Fuel	44.75 gal	Fuel Consumption	4.84 gal/h
Fuel Economy	6.97 mpg	Idle Time	4:01:31
Driving Economy	7.36 mpg	Idle Percent	43.55 %
Avg Drive Load	48 %	Idle Fuel	2.38 gal
Avg Vehicle Speed	59.8 mph	Parked Regen Time	0:00:00

Economy Mode 99.3 % in mode

Time	9:10:48
Distance	312.0 mi
Fuel	44.75 gal
Shift Count	250
Kickdown Time	0:00:00
Kickdown Count	0
Suggestive Shift Count	2

Performance Mode 0.0 % in mode

Time	0:00:00
Distance	0.0 mi
Fuel	0.00 gal
Shift Count	0
Kickdown Time	0:00:00
Kickdown Count	0
Suggestive Shift Count	0

Manual Mode 0.7 % in mode

Time	0:03:49
Distance	0.0 mi
Fuel	0.00 gal
Shift Count	3

Launching

Launch Count	13
Coast Down Re-Engage Cnt	1

eCoast

Total Time	0:05:22
Total Distance	5.4 mi
Cruise Time	0:00:00
Cruise Percent	0.0 %
Cruise Distance	0.0 mi
Accelerator Time	0:05:22
Accelerator Percent	100.0 %
Accelerator Distance	5.4 mi

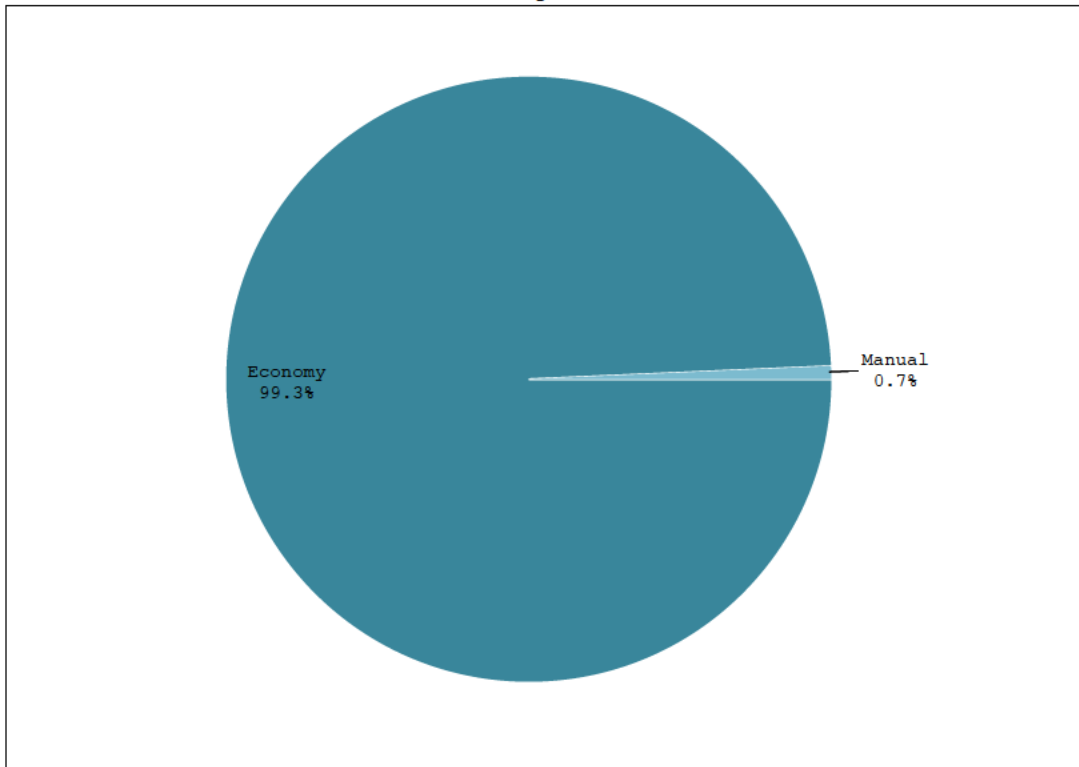
Clutch Overload/Clutch Overtemp

Overtemp Pre-Warn Count	0
Overtemp Warn Count	0
Warning	-
Pre-Warn Time	0:00:00

Creep Mode

Creep Mode time	0:04:45
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Time Percentage in Each Mode



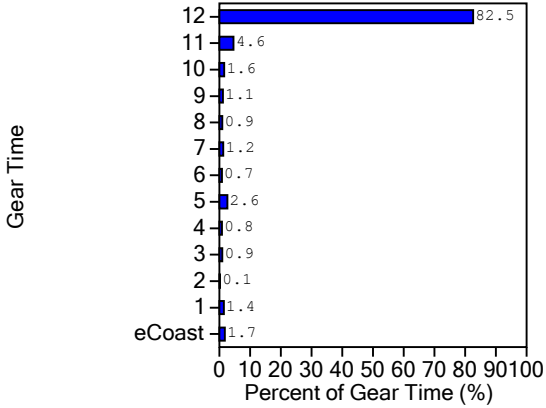
DDEC® Reports - Monthly Transmission Trip

Print Date: 1/16/2020 11:18 AM

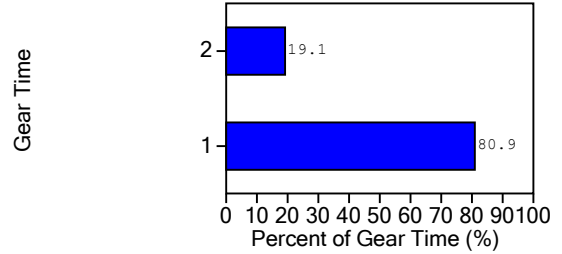
Pennsylvania State Police - CARS Unit

Partial Month: January, 2020 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

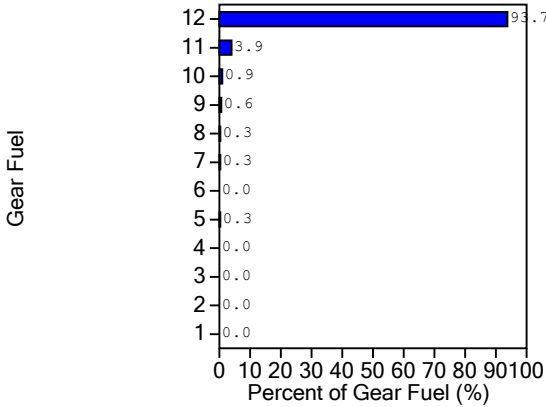
Forward Gear Time Histogram



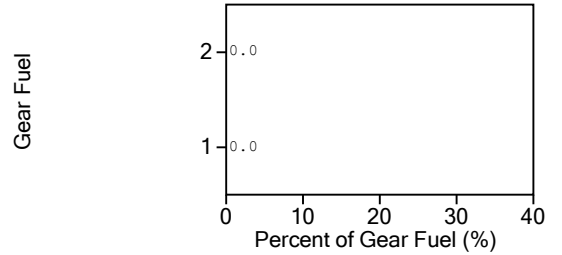
Reverse Gear Time Histogram



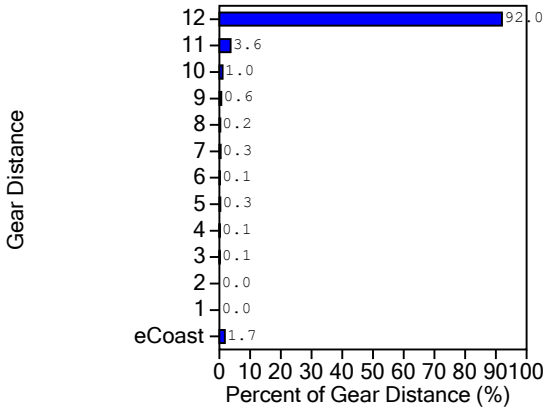
Forward Gear Fuel Histogram



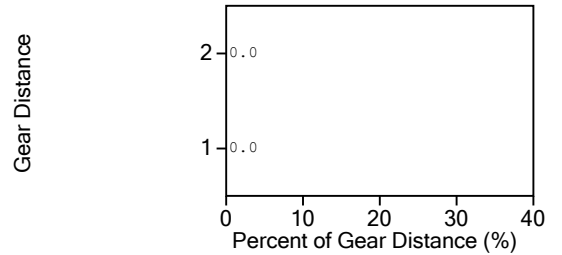
Reverse Gear Fuel Histogram



Forward Gear Distance Histogram



Reverse Gear Distance Histogram



DDEC® Reports - Monthly Transmission Trip

Print Date: 1/16/2020 11:18 AM

Pennsylvania State Police - CARS Unit

Month: December, 2019 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	17383.9 mi	Trip Time	354:45:09
Trip Fuel	2584.00 gal	Fuel Consumption	7.28 gal/h
Fuel Economy	6.73 mpg	Idle Time	74:12:54
Driving Economy	6.85 mpg	Idle Percent	20.92 %
Avg Drive Load	51 %	Idle Fuel	46.63 gal
Avg Vehicle Speed	62.0 mph	Parked Regen Time	0:00:00

Economy Mode 76.2 % in mode

Time	270:28:49
Distance	11806.3 mi
Fuel	1748.00 gal
Shift Count	11314
Kickdown Time	0:00:00
Kickdown Count	0
Suggestive Shift Count	394

Performance Mode 0.0 % in mode

Time	0:00:00
Distance	0.0 mi
Fuel	0.00 gal
Shift Count	0
Kickdown Time	0:00:00
Kickdown Count	0
Suggestive Shift Count	0

Manual Mode 23.8 % in mode

Time	84:16:20
Distance	5577.6 mi
Fuel	835.88 gal
Shift Count	1141

Launching

Launch Count	508
Coast Down Re-Engage Cnt	23

eCoast

Total Time	2:47:45
Total Distance	173.1 mi
Cruise Time	0:00:17
Cruise Percent	0.2 %
Cruise Distance	0.3 mi
Accelerator Time	2:47:28
Accelerator Percent	99.8 %
Accelerator Distance	172.8 mi

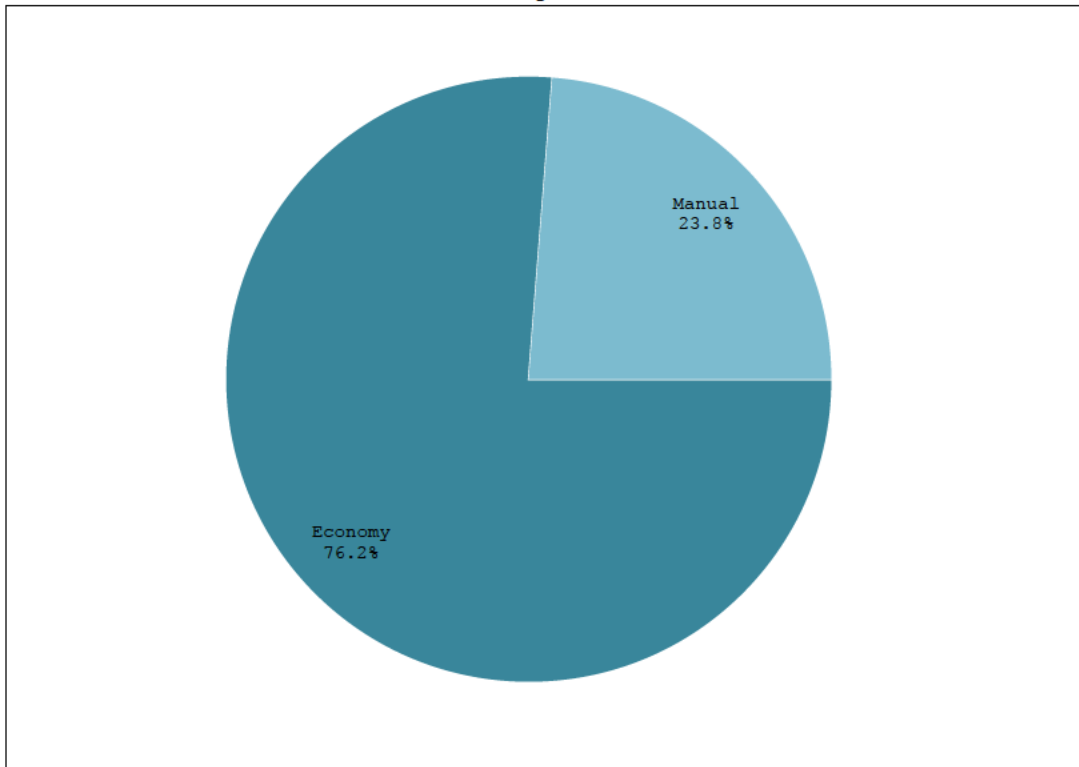
Clutch Overload/Clutch Overtemp

Overtemp Pre-Warn Count	0
Overtemp Warn Count	0
Warning	-
Pre-Warn Time	0:00:00

Creep Mode

Creep Mode time	2:54:53
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Time Percentage in Each Mode



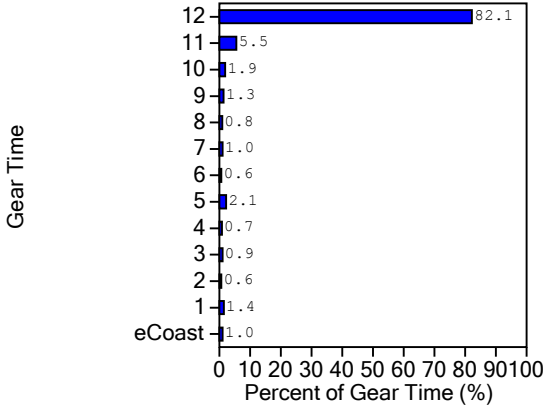
DDEC® Reports - Monthly Transmission Trip

Print Date: 1/16/2020 11:18 AM

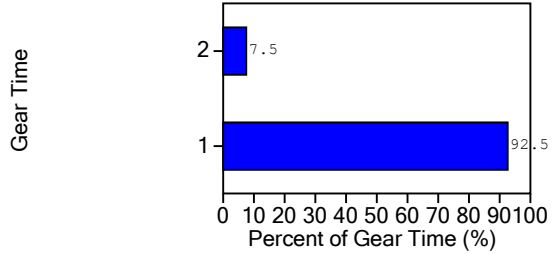
Pennsylvania State Police - CARS Unit

Month: December, 2019 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

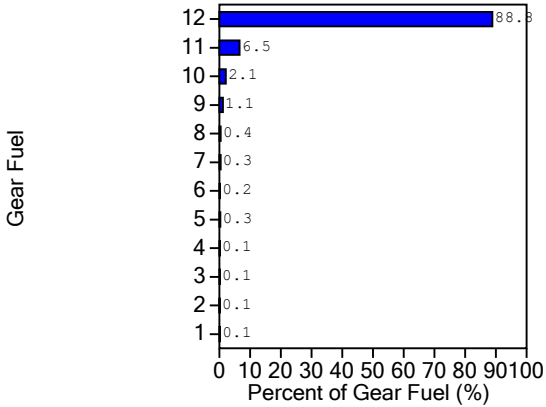
Forward Gear Time Histogram



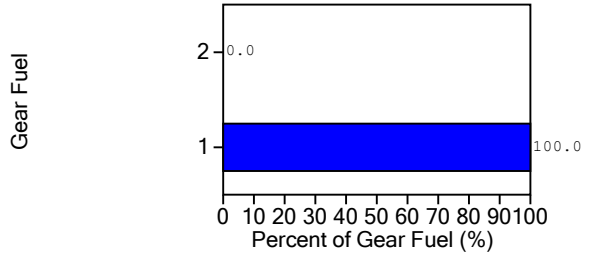
Reverse Gear Time Histogram



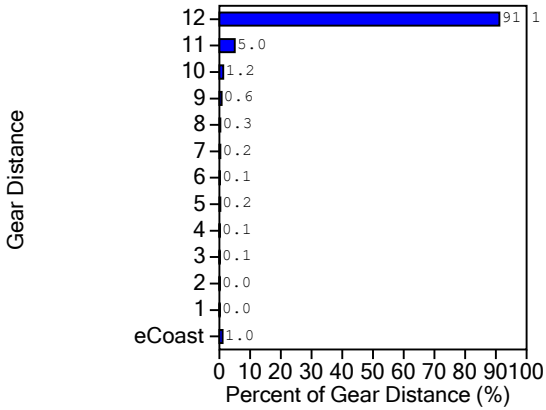
Forward Gear Fuel Histogram



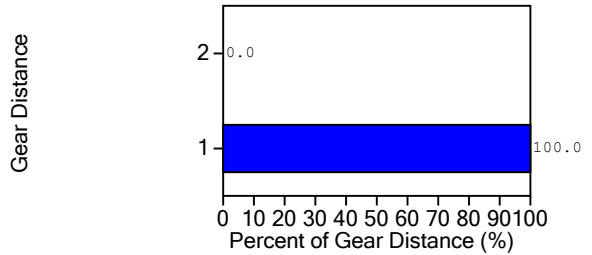
Reverse Gear Fuel Histogram



Forward Gear Distance Histogram



Reverse Gear Distance Histogram



DDEC® Reports - Monthly Transmission Trip

Print Date: 1/16/2020 11:18 AM

Pennsylvania State Police - CARS Unit

Month: November, 2019 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	1202.6 mi	Trip Time	31:26:11
Trip Fuel	166.50 gal	Fuel Consumption	5.30 gal/h
Fuel Economy	7.22 mpg	Idle Time	11:13:29
Driving Economy	7.53 mpg	Idle Percent	35.71 %
Avg Drive Load	45 %	Idle Fuel	6.88 gal
Avg Vehicle Speed	59.5 mph	Parked Regen Time	0:00:00

Economy Mode 86.9 % in mode

Time	27:18:11
Distance	927.8 mi
Fuel	125.38 gal
Shift Count	1078
Kickdown Time	0:00:00
Kickdown Count	0
Suggestive Shift Count	19

Performance Mode 0.0 % in mode

Time	0:00:00
Distance	0.0 mi
Fuel	0.00 gal
Shift Count	0
Kickdown Time	0:00:00
Kickdown Count	0
Suggestive Shift Count	0

Manual Mode 13.1 % in mode

Time	4:08:00
Distance	274.8 mi
Fuel	41.13 gal
Shift Count	56

Launching

Launch Count	63
Coast Down Re-Engage Cnt	0

eCoast

Total Time	0:08:55
Total Distance	9.8 mi
Cruise Time	0:00:00
Cruise Percent	0.0 %
Cruise Distance	0.0 mi
Accelerator Time	0:08:55
Accelerator Percent	100.0 %
Accelerator Distance	9.8 mi

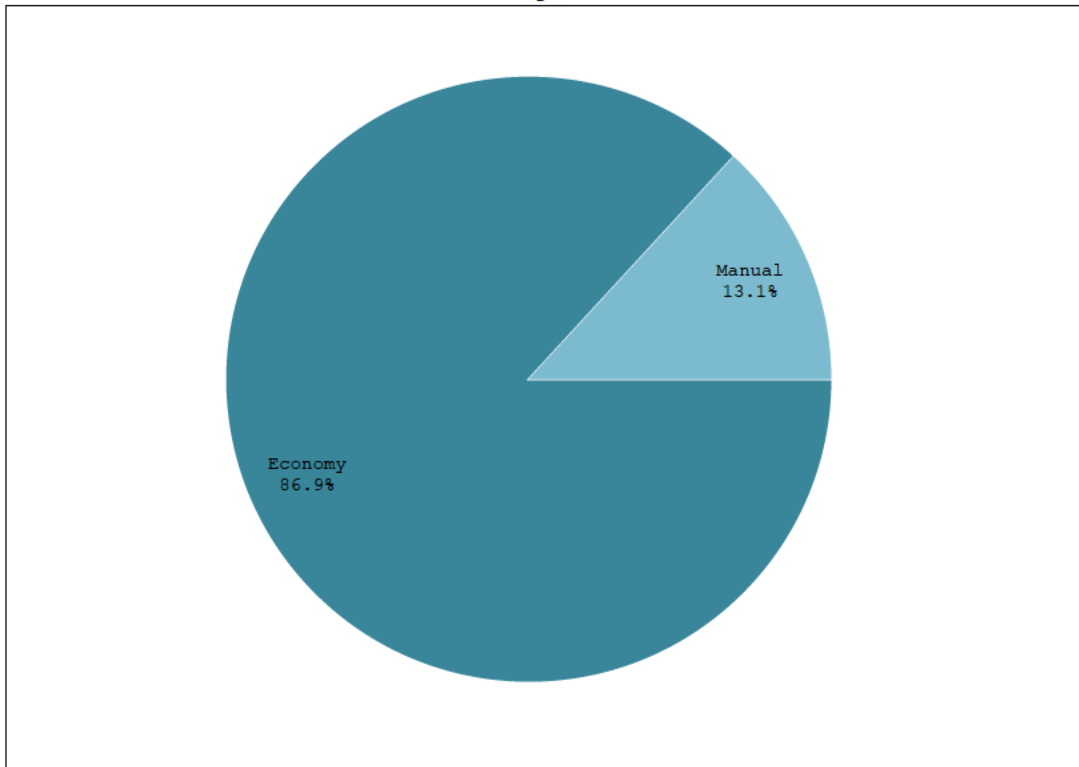
Clutch Overload/Clutch Overtemp

Overtemp Pre-Warn Count	0
Overtemp Warn Count	0
Warning	-
Pre-Warn Time	0:00:00

Creep Mode

Creep Mode time	0:20:46
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Time Percentage in Each Mode



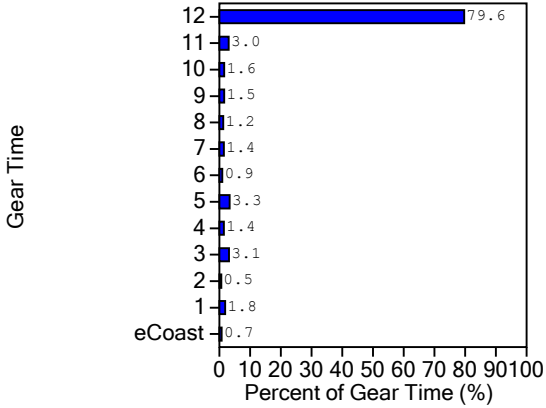
DDEC® Reports - Monthly Transmission Trip

Print Date: 1/16/2020 11:18 AM

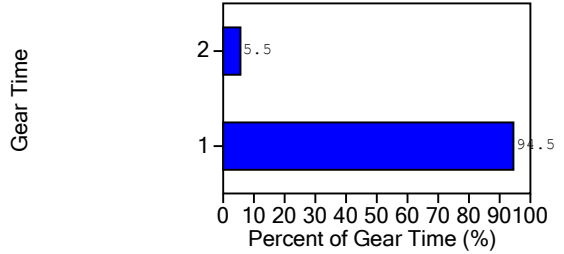
Pennsylvania State Police - CARS Unit

Month: November, 2019 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

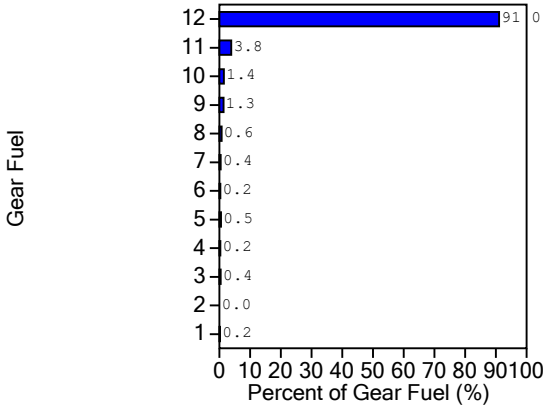
Forward Gear Time Histogram



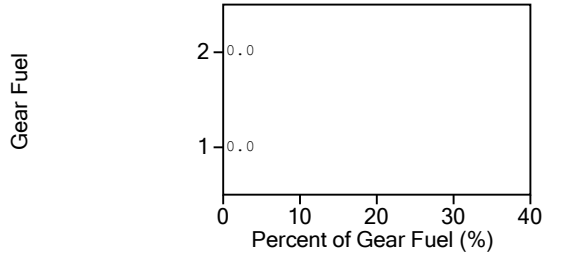
Reverse Gear Time Histogram



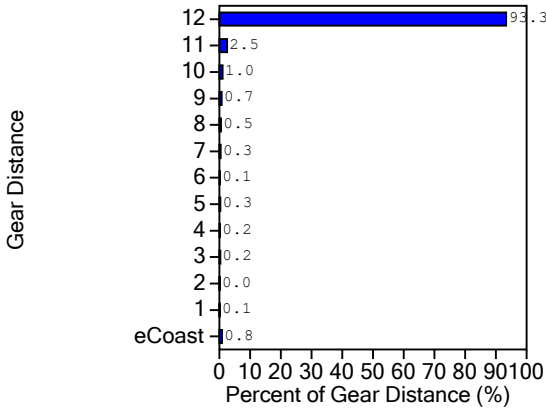
Forward Gear Fuel Histogram



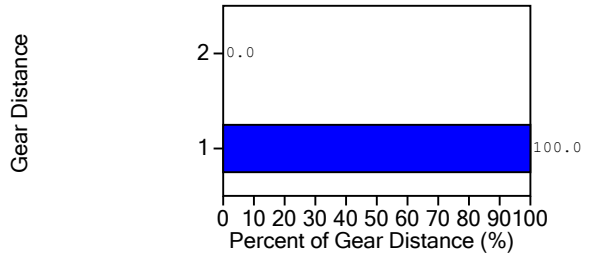
Reverse Gear Fuel Histogram



Forward Gear Distance Histogram



Reverse Gear Distance Histogram



DDEC® Reports - Transmission Life-To-Date

File Name: 011620CARSAC.XTR
 Print Date: 1/16/2020 11:18 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)
 Vehicle ID: X7288
 Driver ID:
 Odometer: 525683.6 mi
 Engine S/N: 471928S0522912

Trip Distance	19981.8 mi	Trip Time	419:23:14
Trip Fuel	2937.18 gal	Fuel Consumption	7.00 gal/h
Fuel Economy	6.80 mpg	Idle Time	94:32:45
Avg Drive Load	50 %	Idle Percent	22.54 %
Avg Vehicle Speed	61.7 mph	Idle Fuel	66.06 gal
		Parked Regen Time	0:59:57

Economy Mode 79.3 % in mode

Time	8543:38:13
Distance	379034.5 mi
Fuel	53967.00 gal
Shift Count	373488
Kickdown Time	0:00:00
Kickdown Count	0
Suggestive Shift Count	11109

Launching

Launch count	15533
Coast Down Re-Engage Cnt	610

eCoast

Total Time	89:42:53
Total Distance	5764.2 mi
Cruise Time	8:06:05
Cruise Percent	9.0 %
Cruise Distance	563.0 mi
Accelerator Time	81:36:48
Accelerator Percent	91.0 %
Accelerator Distance	5201.2 mi

Performance Mode 0.0 % in mode

Time	0:00:00
Distance	0.0 mi
Fuel	0.00 gal
Shift Count	0
Kickdown Time	0:00:00
Kickdown Count	0
Suggestive Shift Count	0

Clutch Abuse/Clutch overtemp

Overtemp Pre-Warn Count	4
Overtemp Warn Count	0
Warning	-
Pre-Warn Time	0:00:00

Manual Mode 20.7 % in mode

Time	2229:37:39
Distance	146649.1 mi
Fuel	20410.50 gal
Shift Count	31637

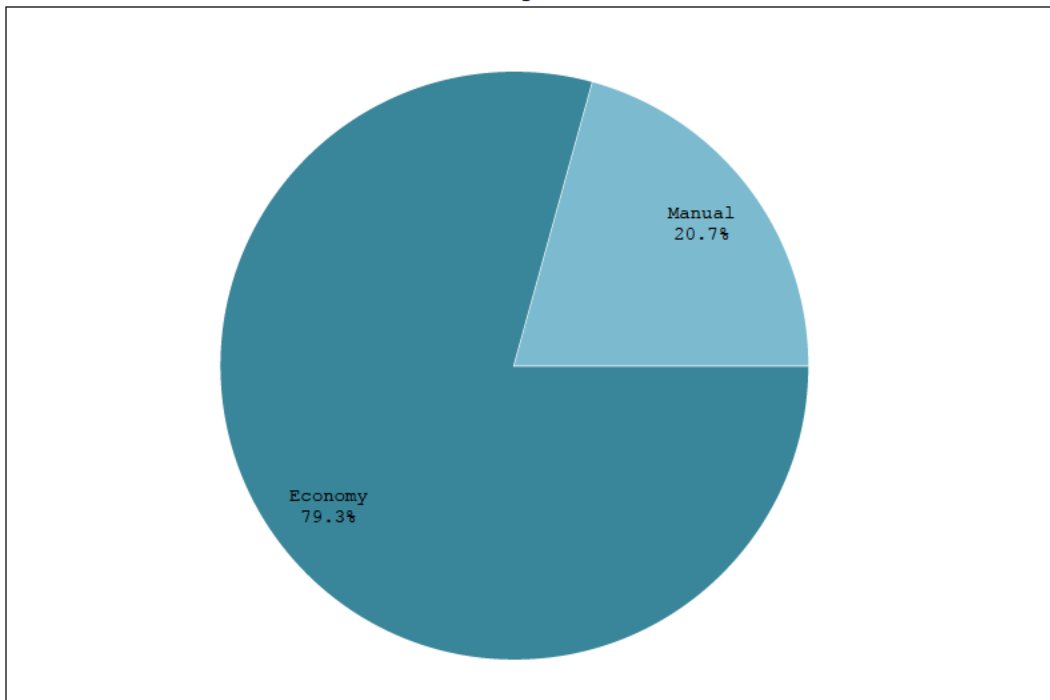
Peak Transmission Oil Temperature

Highest Oil Temperature	210.8 °F
Occurred	07/16/19 06:35 (EST)

Creep Mode

Creep Mode time	74:01:18
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Time Percentage in Each Mode



DDEC® Reports - Transmission Life-To-Date

File Name: 011620CARSAC.XTR

Print Date: 1/16/2020 11:18 AM

Trip: 11/14/19 21:46:58 To 01/16/20 (EST)

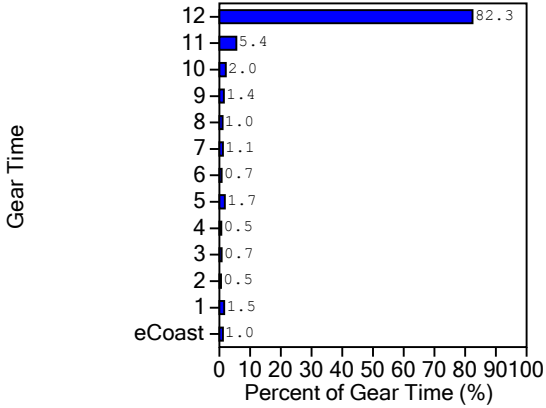
Vehicle ID: X7288

Driver ID:

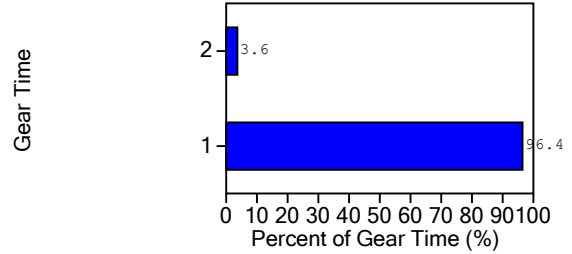
Odometer: 525683.6 mi

Engine S/N: 471928S0522912

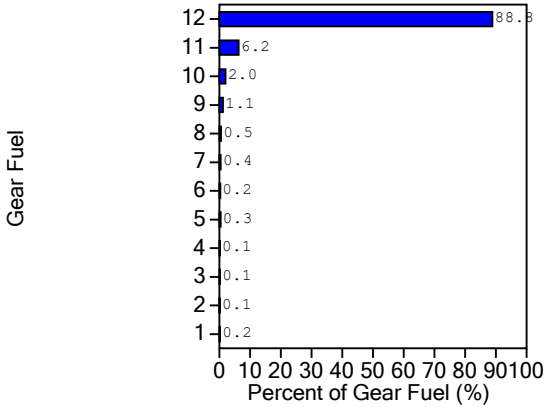
Forward Gear Time Histogram



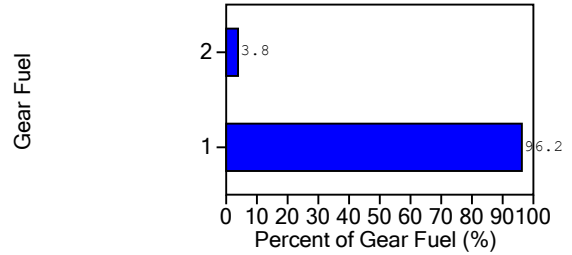
Reverse Gear Time Histogram



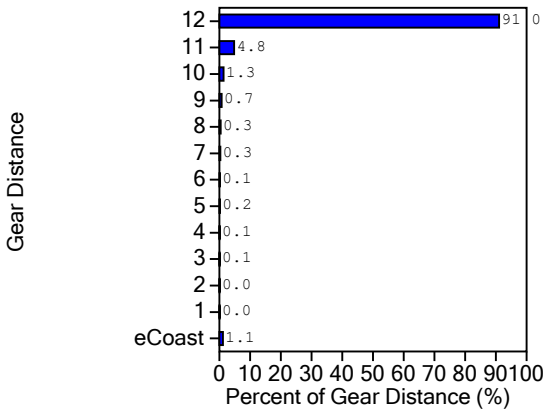
Forward Gear Fuel Histogram



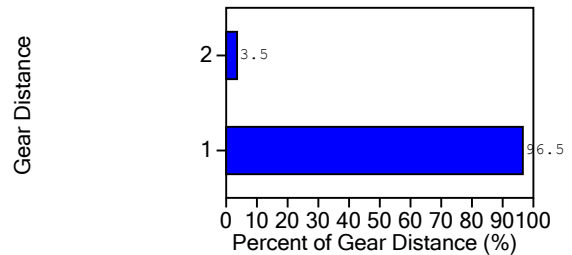
Reverse Gear Fuel Histogram



Forward Gear Distance Histogram



Reverse Gear Distance Histogram



Date: 01/16/20

Incident: PA20-22463

Location: Herring Towing, Somerset Twp., Somerset County, PA

The screenshot shows the 'Communication Manager' application window. The status bar at the top indicates 'UDS Connected' and 'DDECCPC4'. The 'Extraction Settings' section has 'Reset Trip' and 'Reset Time' checkboxes. The 'Configuration File' section shows 'Config. File' set to 'None'. The 'Extraction Results' section shows 'Extract Pages', 'Reset Data', 'Setup Vehicle', and 'Reset Time' with red 'X' icons. The 'Time Results (UTC)' section shows 'ECU Time' as '1/16/2020 4:14:21 PM' and 'PC Time' as '1/16/2020 4:16:05 PM'. A 'Start Extraction' button is visible. The taskbar shows 'Cummins Inc. Upda...' and 'DDEC Reports'.

The screenshot shows the 'Communication Manager' application window after extraction. The status bar at the top indicates 'UDS Extracted' and 'DDECCPC4'. The 'Extraction Results' section shows 'Extract Pages' with a green checkmark, and 'Reset Data', 'Setup Vehicle', and 'Reset Time' with red 'X' icons. The 'XTR File' field now contains '011620CARSAC.XTR'. The 'Time Results (UTC)' section shows 'ECU Time' as '1/16/2020 4:15:23 PM' and 'PC Time' as '1/16/2020 4:17:07 PM'. A note below states 'ECU time was not reset'. The taskbar shows 'Waiting for Vehicle to disconnect' and 'UDS 1 extractions'. A calendar widget is visible on the right side of the desktop, showing '11:17:08 AM Thursday, January 16, 2020' and a calendar for January 2020 with the 16th highlighted.