VEHICLE FACTORS ATTACHMENT

Prevost Data Imaging Report

Highland, IL

HWY23MH015

(84 pages)

DELTA [v]
Forensic Engineering

PREVOST
Data Imaging Report
For: Greyhound Lines, Inc.
2PCG33495EC735508
PREVX 735508

[redacted]
DELTA [v] Forensic Engineering, Inc.*
9401-D Southern Pine Boulevard
Charlotte, NC 28273
V: [redacted]

*Approved Service Provider for Volvo Group NA

DELTA [v] Ref: E13130

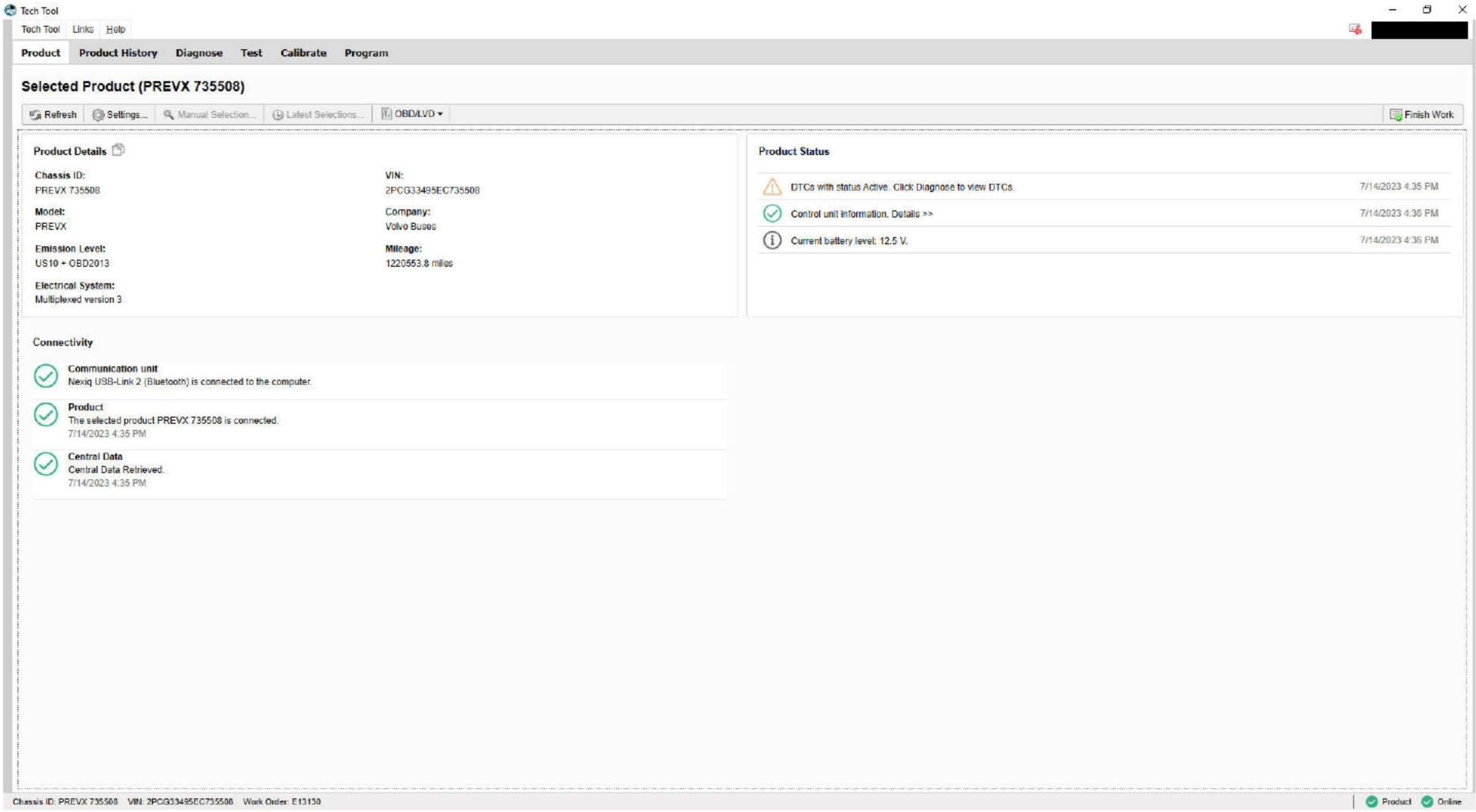
Reported by: [redacted]

Compiled: July 14, 2023

1. Table of Contents

2. Premium Tech Tool

2.1. Selected Product



2.2. Product History Report

VIN: 2PCG33495EC735508 Mileage: 1220553.8 miles
Chassis ID: PREVX 735508 Printed: 7/14/2023 4:52 PM
Model: PREVX
Reg. Number:

Calibration : 1700-22-03-02 - System Date and Time

Start time:	End Time:	Status:	Work Order:	User ID:	Partner ID:
7/14/2023 4:51:31 PM	7/14/2023 4:52:07 PM	Passed Session ID: PREVX735508141636034	E13130	M328855	US585027

Parameter Programming : 1700-22-03-03 - Parameter, programming

Start time:	End Time:	Status:	Work Order:	User ID:	Partner ID:
7/14/2023 4:48:45 PM	7/14/2023 4:51:23 PM	Passed Session ID: PREVX735508141636034	E13130	M328855	US585027

Test : 2545-08-03-04 - Exhaust Aftertreatment System Logged Data

Start time:	End Time:	Status:	Work Order:	User ID:	Partner ID:
7/14/2023 4:44:12 PM	7/14/2023 4:45:22 PM	Passed Session ID: PREVX735508141636034	E13130	M328855	US585027

Test : 2000-08-03-07 - Engine Protection Data

Start time:	End Time:	Status:	Work Order:	User ID:	Partner ID:
7/14/2023 4:43:00 PM	7/14/2023 4:43:55 PM	Passed Session ID: PREVX735508141636034	E13130	M328855	US585027

Test : 2000-08-03-05 - Fuel Consumption Data

Start time:	End Time:	Status:	Work Order:	User ID:	Partner ID:
7/14/2023 4:40:17 PM	7/14/2023 4:42:47 PM	Passed Session ID: PREVX735508141636034	E13130	M328855	US585027

Test : 1700-08-03-38 - Product Information

Start time:	End Time:	Status:	Work Order:	User ID:	Partner ID:
7/14/2023 4:39:16 PM	7/14/2023 4:40:02 PM	Passed Session ID: PREVX735508141636034	E13130	M328855	US585027

LVD Readout : Automatic

Start time:	Session ID:	Work Order:	User ID:	Partner ID:
7/14/2023 4:37:07 PM	PREVX735508141636034	E13130	M328855	US585027

Control Unit Information :

Start time:	Session ID:	Work Order:	User ID:	Partner ID:
7/14/2023 4:36:03 PM	PREVX735508141636034	E13130	M328855	US585027

DTC Readout :

Start time:	Session ID:	Work Order:	User ID:	Partner ID:
7/14/2023 4:35:46 PM	PREVX735508141636034	E13130	M328855	US585027

Vehicle/Machine Time:	Engine hours:
7/12/2023 6:14:59 AM	1557.8177

Control Unit	DTC	Status	Count	First Occurrence	Last Occurrence

Aftertreatment Control Module (ACM)	U010000: Lost Communication with EMS, No additional information	Inactive	1	7/3/2023 5:55:00 AM	7/3/2023 5:54:10 AM

Freeze frames:

ID	Parameter	Unit	Value
P1AFR	Outdoor Temperature	Fahrenheit	-459.4
P1AFS	Odometer	miles	13083218.682
P1AFT	Vehicle Mode	None	14
P1E18	Engine Coolant Temperature		Complex
P1E1K	Calculated LOAD Value	%	100
P1E1L	Engine Speed	r/min	16383.75
P1E1M	Vehicle Speed Sensor	mph	158
P1E1O	Time Since Engine Start	s	65535
P1E1S	Barometric Pressure	psi	0
P1E1U	Control Module Voltage	V	25.624
P1E1V	Ambient Air Temperature	Fahrenheit	419
P1E1W	Accelerator Pedal Position	%	100
P1E2B	Exhaust Gas Temperature (EGT) Bank 1 - Configuration 2		Complex
P1E2C	Diesel Particulate Filter (DPF) Bank 1		Complex
P1FNM	PID Supported 01-20		Complex
P1FNN	PID Supported 21-40		Complex
P1FON	PID Supported 41-60		Complex
P1FOO	PID supported 61-80		Complex
P1FOV	PID Supported 81-A0		Complex
P1HYD	NOx Control System		Complex

Brake ECU (MID 136)	SID 231: SAE J1939 data link, FMI 2: Data erratic, intermittent, or incorrect	Inactive	1		
Brake ECU (MID 136)	SID 89: Steering Angle Sensor, FMI 2: Data erratic, intermittent, or incorrect	Active	1		
Engine Control Module (EMS)	P255613: Engine Coolant Level Sensor/Switch, Circuit open	Inactive	162	7/2/2023 5:29:14 AM	7/3/2023 4:23:00 AM

Freeze frames:

ID	Parameter	Unit	Value
P1AFR	Outdoor Temperature	Fahrenheit	77.50625
P1AFS	Odometer	miles	1217596.458
P1AFT	Vehicle Mode	None	14
P1E10	Engine Oil Temperature	Fahrenheit	208
P1E11	Fuel Injection Timing	degrees	10.453
P1E12	Engine Fuel Rate	gph(US)	0
P1E13	Driver's Demand Engine - Percent Torque	%	71
P1E14	Actual Engine - Percent Torque	%	71
P1E15	Engine Reference Torque	ft/lbs	3362
P1E17	Auxiliary Inputs / Outputs		Complex
P1E18	Engine Coolant Temperature		Complex
P1E1K	Calculated LOAD Value	%	94.902
P1E1L	Engine Speed	r/min	1886
P1E1M	Vehicle Speed Sensor	mph	20
P1E1O	Time Since Engine Start	s	1544
P1E1S	Barometric Pressure	psi	14

	P1E1U	Control Module Voltage			V	13.802
	P1E1V	Ambient Air Temperature			Fahrenheit	77
	P1E1W	Accelerator Pedal Position			%	67.843
	P1E2B	Exhaust Gas Temperature (EGT) Bank 1 - Configuration 2				Complex
	P1E2C	Diesel Particulate Filter (DPF) Bank 1				Complex
	P1E2D	Intake Manifold Absolute Pressure				Complex
	P1F24	Fuel Pressure (gauge)			psi	82
	P1FNM	PID Supported 01-20				Complex
	P1FNN	PID Supported 21-40				Complex
	P1FON	PID Supported 41-60				Complex
	P1FOO	PID supported 61-80				Complex
	P1FOV	PID Supported 81-A0				Complex
	P1FUB	Exhaust Gas Recirculation Temperature				Complex
	P1FVS	Turbocharger RPM				Complex
	P1HX0	Variable Geometry Turbo Control				Complex
	P1HXX	Commanded EGR Valve Duty Cycle/Position				Complex
	P1HXZ	Boost Pressure Control				Complex
	P1HYD	NOx Control System				Complex
	P1HYF	Fuel System Status (Compression Ignition)				Complex
	P1IX8	Diesel Aftertreatment Status				Complex
	P1KNH	Intake Air Temperature Sensor - Configuration 2				Complex
Engine Control Module (EMS)	P05E400: Park Brake Sensor/Switch Circuit Low, No additional information		Inactive	1	6/4/2023 8:27:01 PM	6/4/2023 8:48:04 PM
Engine Control Module (EMS)	P012200: Throttle/Pedal Position Sensor/Switch "A" Circuit Low, No additional information		Inactive	1	7/3/2023 7:32:14 PM	7/3/2023 7:33:01 PM
Engine Control Module (EMS)	P22FB92: NOx Sensor Performance - Sensing Element Bank 1 Sensor 1, Performance or incorrect operation		Active	1	7/2/2023 11:30:08 PM	7/3/2023 2:33:12 AM

Freeze frames:

ID	Parameter	Unit	Value
P1AFR	Outdoor Temperature	Fahrenheit	75.2
P1AFS	Odometer	miles	1218326.295
P1AFT	Vehicle Mode	None	14
P1E10	Engine Oil Temperature	Fahrenheit	243
P1E11	Fuel Injection Timing	degrees	7.398
P1E12	Engine Fuel Rate	gph(US)	0
P1E13	Driver's Demand Engine - Percent Torque	%	33
P1E14	Actual Engine - Percent Torque	%	33
P1E15	Engine Reference Torque	ft/lbs	3362
P1E17	Auxiliary Inputs / Outputs		Complex
P1E18	Engine Coolant Temperature		Complex
P1E1K	Calculated LOAD Value	%	33.725
P1E1L	Engine Speed	r/min	1460.5
P1E1M	Vehicle Speed Sensor	mph	67
P1E1O	Time Since Engine Start	s	3232
P1E1S	Barometric Pressure	psi	14
P1E1U	Control Module Voltage	V	13.759
P1E1V	Ambient Air Temperature	Fahrenheit	75

	P1E1W	Accelerator Pedal Position	%	0
	P1E2B	Exhaust Gas Temperature (EGT) Bank 1 - Configuration 2		Complex
	P1E2C	Diesel Particulate Filter (DPF) Bank 1		Complex
	P1E2D	Intake Manifold Absolute Pressure		Complex
	P1F24	Fuel Pressure (gauge)	psi	74
	P1FNM	PID Supported 01-20		Complex
	P1FNN	PID Supported 21-40		Complex
	P1FON	PID Supported 41-60		Complex
	P1FOO	PID supported 61-80		Complex
	P1FOV	PID Supported 81-A0		Complex
	P1FUB	Exhaust Gas Recirculation Temperature		Complex
	P1FVS	Turbocharger RPM		Complex
	P1HX0	Variable Geometry Turbo Control		Complex
	P1HXX	Commanded EGR Valve Duty Cycle/Position		Complex
	P1HXZ	Boost Pressure Control		Complex
	P1HYD	NOx Control System		Complex
	P1HYF	Fuel System Status (Compression Ignition)		Complex
	P1IX8	Diesel Aftertreatment Status		Complex
	P1KNH	Intake Air Temperature Sensor - Configuration 2		Complex

Engine Control Module (EMS)	P220013: NOx Sensor Bank 1 Sensor 1, Circuit open	Active	1	7/3/2023 4:43:00 AM	7/3/2023 3:17:01 AM

Freeze frames:

ID	Parameter	Unit	Value
P1AFR	Outdoor Temperature	Fahrenheit	71.9375
P1AFS	Odometer	miles	1218554.065
P1AFT	Vehicle Mode	None	14
P1E10	Engine Oil Temperature	Fahrenheit	243
P1E11	Fuel Injection Timing	degrees	5.453
P1E12	Engine Fuel Rate	gph(US)	0
P1E13	Driver's Demand Engine - Percent Torque	%	58
P1E14	Actual Engine - Percent Torque	%	58
P1E15	Engine Reference Torque	ft/lbs	3362
P1E17	Auxiliary Inputs / Outputs		Complex
P1E18	Engine Coolant Temperature		Complex
P1E1K	Calculated LOAD Value	%	58.824
P1E1L	Engine Speed	r/min	1268.25
P1E1M	Vehicle Speed Sensor	mph	68
P1E1O	Time Since Engine Start	s	6865
P1E1S	Barometric Pressure	psi	14
P1E1U	Control Module Voltage	V	13.652
P1E1V	Ambient Air Temperature	Fahrenheit	72
P1E1W	Accelerator Pedal Position	%	100
P1E2B	Exhaust Gas Temperature (EGT) Bank 1 - Configuration 2		Complex
P1E2C	Diesel Particulate Filter (DPF) Bank 1		Complex
P1E2D	Intake Manifold Absolute Pressure		Complex
P1F24	Fuel Pressure (gauge)	psi	67
P1FNM	PID Supported 01-20		Complex

	P1FNN	PID Supported 21-40	Complex
	P1FON	PID Supported 41-60	Complex
	P1FOO	PID supported 61-80	Complex
	P1FOV	PID Supported 81-A0	Complex
	P1FUB	Exhaust Gas Recirculation Temperature	Complex
	P1FVS	Turbocharger RPM	Complex
	P1HX0	Variable Geometry Turbo Control	Complex
	P1HXX	Commanded EGR Valve Duty Cycle/Position	Complex
	P1HXZ	Boost Pressure Control	Complex
	P1HYD	NOx Control System	Complex
	P1HYF	Fuel System Status (Compression Ignition)	Complex
	P1IX8	Diesel Aftertreatment Status	Complex
	P1KNH	Intake Air Temperature Sensor - Configuration 2	Complex

Engine Control Module (EMS)

P220300: NOx Sensor Circuit High Bank 1 Sensor 1, Active 130 7/3/2023 6:15:00 AM 7/3/2023 5:50:07 AM
No additional information

Freeze frames:

ID	Parameter	Unit	Value
P1AFR	Outdoor Temperature	Fahrenheit	68.3375
P1AFS	Odometer	miles	1218648.911
P1AFT	Vehicle Mode	None	14
P1E10	Engine Oil Temperature	Fahrenheit	232
P1E11	Fuel Injection Timing	degrees	2
P1E12	Engine Fuel Rate	gph(US)	0
P1E13	Driver's Demand Engine - Percent Torque	%	9
P1E14	Actual Engine - Percent Torque	%	9
P1E15	Engine Reference Torque	ft/lbs	3362
P1E17	Auxiliary Inputs / Outputs		Complex
P1E18	Engine Coolant Temperature		Complex
P1E1K	Calculated LOAD Value	%	8.627
P1E1L	Engine Speed	r/min	1002.5
P1E1M	Vehicle Speed Sensor	mph	0
P1E1O	Time Since Engine Start	s	12389
P1E1S	Barometric Pressure	psi	14
P1E1U	Control Module Voltage	V	13.841
P1E1V	Ambient Air Temperature	Fahrenheit	68
P1E1W	Accelerator Pedal Position	%	0
P1E2B	Exhaust Gas Temperature (EGT) Bank 1 - Configuration 2		Complex
P1E2C	Diesel Particulate Filter (DPF) Bank 1		Complex
P1E2D	Intake Manifold Absolute Pressure		Complex
P1F24	Fuel Pressure (gauge)	psi	63
P1FNM	PID Supported 01-20		Complex
P1FNN	PID Supported 21-40		Complex
P1FON	PID Supported 41-60		Complex
P1FOO	PID supported 61-80		Complex
P1FOV	PID Supported 81-A0		Complex
P1FUB	Exhaust Gas Recirculation Temperature		Complex
P1FVS	Turbocharger RPM		Complex

P1HX0	Variable Geometry Turbo Control		Complex
P1HXX	Commanded EGR Valve Duty Cycle/Position		Complex
P1HXZ	Boost Pressure Control		Complex
P1HYD	NOx Control System		Complex
P1HYF	Fuel System Status (Compression Ignition)		Complex
P1IX8	Diesel Aftertreatment Status		Complex
P1KNH	Intake Air Temperature Sensor - Configuration 2		Complex

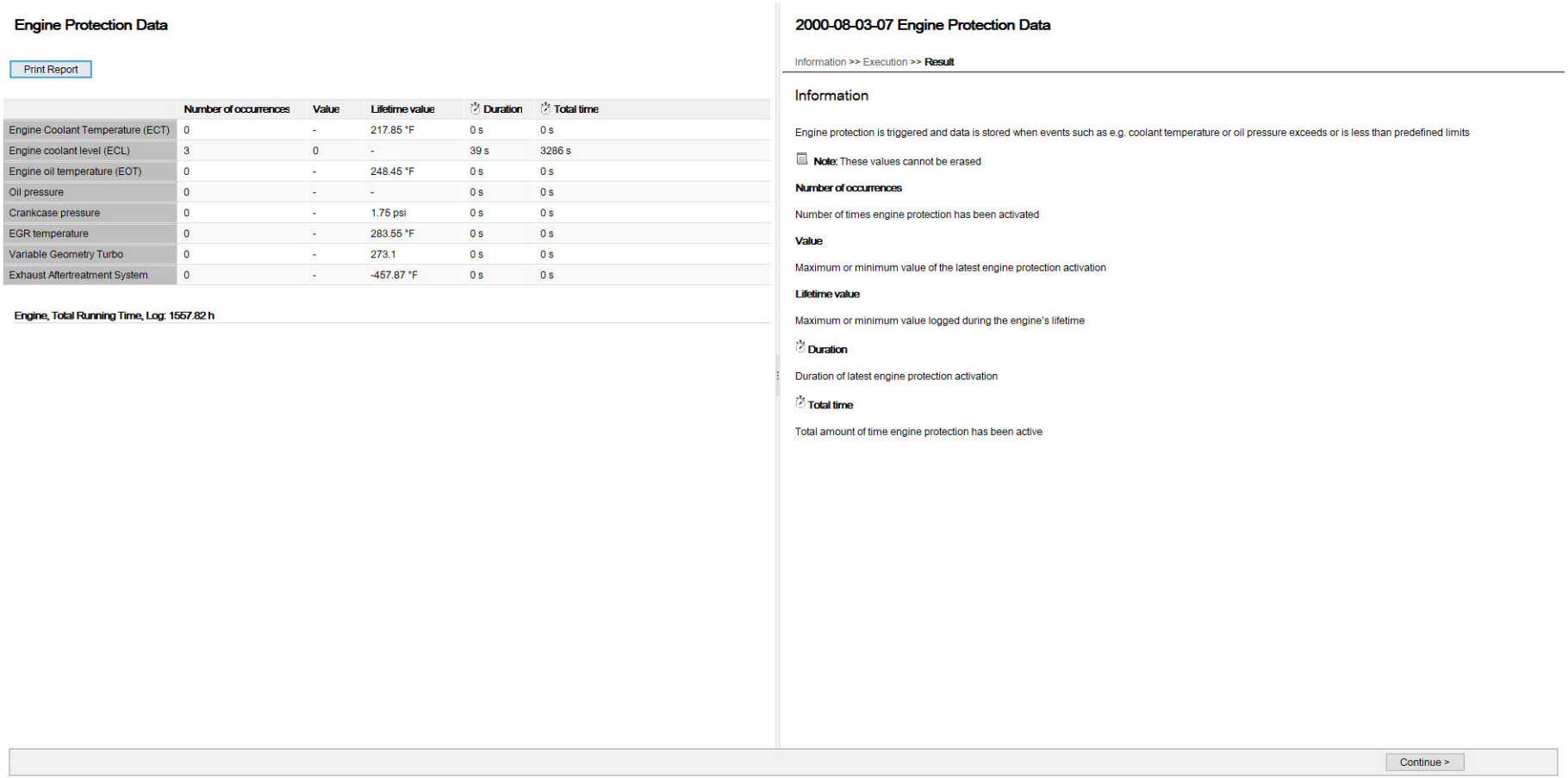
Engine Control Module (EMS)	P220E93: NOx Sensor Heater Control Circuit Range/ Performance (Bank 1 Sensor 1), No operation	Active	3	7/2/2023 9:06:01 PM	7/3/2023 3:06:07 AM

Freeze frames:

ID	Parameter	Unit	Value
P1AFR	Outdoor Temperature	Fahrenheit	79.7
P1AFS	Odometer	miles	1217594.469
P1AFT	Vehicle Mode	None	14
P1E10	Engine Oil Temperature	Fahrenheit	189
P1E11	Fuel Injection Timing	degrees	1.969
P1E12	Engine Fuel Rate	gph(US)	0
P1E13	Driver's Demand Engine - Percent Torque	%	0
P1E14	Actual Engine - Percent Torque	%	10
P1E15	Engine Reference Torque	ft/lbs	3362
P1E17	Auxiliary Inputs / Outputs		Complex
P1E18	Engine Coolant Temperature		Complex
P1E1K	Calculated LOAD Value	%	18.824
P1E1L	Engine Speed	r/min	599.25
P1E1M	Vehicle Speed Sensor	mph	0
P1E1O	Time Since Engine Start	s	1215
P1E1S	Barometric Pressure	psi	14
P1E1U	Control Module Voltage	V	13.801
P1E1V	Ambient Air Temperature	Fahrenheit	79
P1E1W	Accelerator Pedal Position	%	0
P1E2B	Exhaust Gas Temperature (EGT) Bank 1 - Configuration 2		Complex
P1E2C	Diesel Particulate Filter (DPF) Bank 1		Complex
P1E2D	Intake Manifold Absolute Pressure		Complex
P1F24	Fuel Pressure (gauge)	psi	52
P1FNM	PID Supported 01-20		Complex
P1FNN	PID Supported 21-40		Complex
P1FON	PID Supported 41-60		Complex
P1FOO	PID supported 61-80		Complex
P1FOV	PID Supported 81-A0		Complex
P1FUB	Exhaust Gas Recirculation Temperature		Complex
P1FVS	Turbocharger RPM		Complex
P1HX0	Variable Geometry Turbo Control		Complex
P1HXX	Commanded EGR Valve Duty Cycle/Position		Complex
P1HXZ	Boost Pressure Control		Complex
P1HYD	NOx Control System		Complex
P1HYF	Fuel System Status (Compression Ignition)		Complex
P1IX8	Diesel Aftertreatment Status		Complex

	P1KNH Intake Air Temperature Sensor - Configuration 2				Complex
Engine Control Module (EMS)	U301700: Control Module Timer/Clock Performance, No additional information	Inactive	1	7/3/2023 7:37:07 PM	7/3/2023 8:37:07 PM
Instrument Cluster #1 (SA 23)	SPN 1087: Service Brake Circuit 1 Air Pressure, FMI 1: Data Valid But Below Normal Operational Range - Most Severe Level	Inactive	29		
Instrument Cluster #1 (SA 23)	SPN 1088: Service Brake Circuit 2 Air Pressure, FMI 1: Data Valid But Below Normal Operational Range - Most Severe Level	Inactive	32		
Volvo Link (MID 142)	SID 250: SAE J1708/J1587 data link, FMI 12: Faulty device or component	Inactive	11	6/29/2023 5:22:00 PM	7/10/2023 3:46:00 AM

2.3. Engine Protection Data



Engine Protection Data

Print Report

	Number of occurrences	Value	Lifetime value	Duration	Total time
Engine Coolant Temperature (ECT)	0	-	217.85 °F	0 s	0 s
Engine coolant level (ECL)	3	0	-	39 s	3286 s
Engine oil temperature (EOT)	0	-	248.45 °F	0 s	0 s
Oil pressure	0	-	-	0 s	0 s
Crankcase pressure	0	-	1.75 psi	0 s	0 s
EGR temperature	0	-	283.55 °F	0 s	0 s
Variable Geometry Turbo	0	-	273.1	0 s	0 s
Exhaust Aftertreatment System	0	-	-457.87 °F	0 s	0 s

Engine, Total Running Time, Log: 1557.82 h

2000-08-03-07 Engine Protection Data

Information >> Execution >> **Result**

Information

Engine protection is triggered and data is stored when events such as e.g. coolant temperature or oil pressure exceeds or is less than predefined limits

Note: These values cannot be erased

Number of occurrences

Number of times engine protection has been activated

Value

Maximum or minimum value of the latest engine protection activation

Lifetime value

Maximum or minimum value logged during the engine's lifetime

Duration

Duration of latest engine protection activation

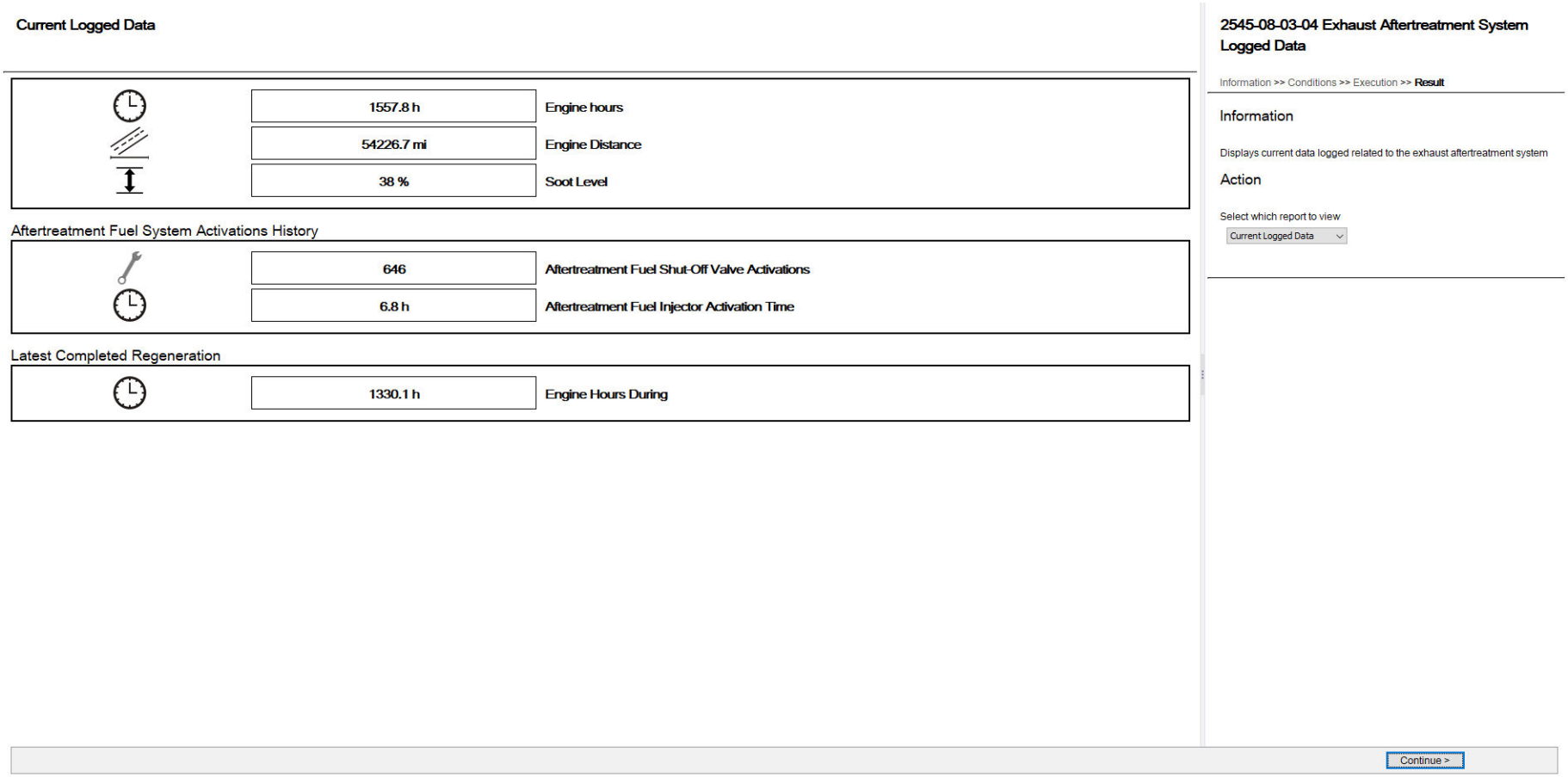
Total time

Total amount of time engine protection has been active

Continue >

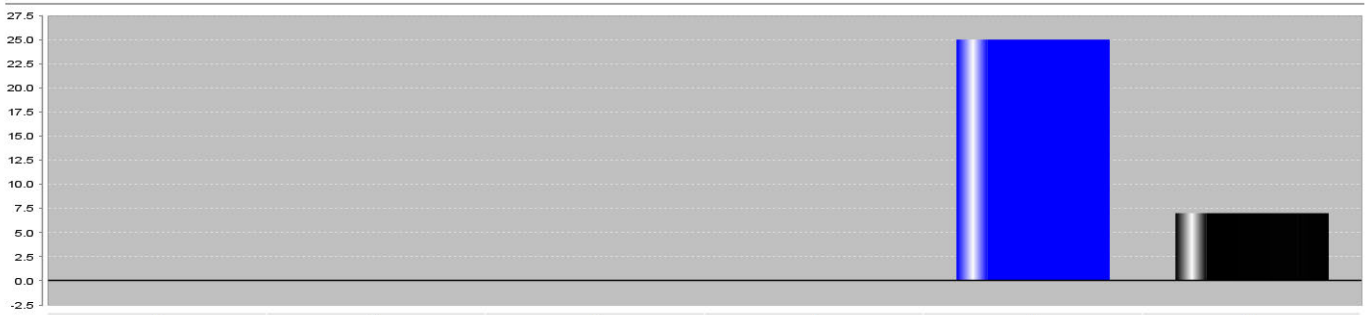
2.4. Exhaust Aftertreatment System Logged Data

2.4.1. Current Logged Data



2.4.2. Regeneration Triggers

Regeneration Triggers



1	2	3	4	5	6
0	0	0	0	25	7

Column	Regeneration Initiated	Regeneration Events
1.	Manual Regenerations	0
2.	Distance Trigger	0
3.	Fuel Trigger	0
4.	Time Trigger	0
5.	Soot Trigger (1)	25
6.	Soot Trigger (2)	7

2545-08-03-04 Exhaust Aftertreatment System Logged Data

Information >> Conditions >> Execution >> **Result**

Information

Regeneration of the diesel particulate filter can be initiated when data that is accumulated in certain levels (triggers), or by a manual request from the vehicle operator

Trigger categories include:

1. **Manual Regenerations**: Manual activations by the vehicle operator or service technician
2. **Distance Trigger**: Calculated soot load in the DPF based the distance driven
3. **Fuel Trigger**: Calculated soot load in the DPF based on the volume of fuel consumed
4. **Time Trigger**: Calculated soot load in the DPF based on the elapsed operation time
5. **Soot Trigger (1)**: Calculated soot load in the DPF based on readings from the DPF differential pressure sensor
6. **Soot Trigger (2)**: Calculated soot load in the DPF based on the projected rate of soot accumulation in the relation to the amount that is passively regenerated during normal operation

Action

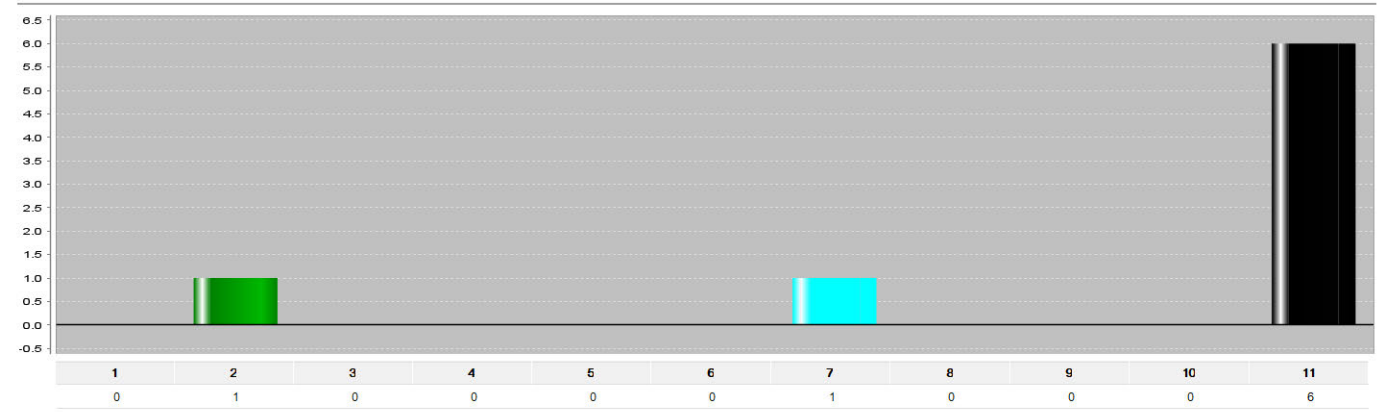
Select which report to view

Regeneration Triggers

Continue >

2.4.3. Completion History

Completion History



1	2	3	4	5	6	7	8	9	10	11
0	1	0	0	0	0	1	0	0	0	6

Column	Completion Percentage	Number of times
1.	0 - 10%	0
2.	10 - 20%	1
3.	20 - 30%	0
4.	30 - 40%	0
5.	40 - 50%	0
6.	50 - 60%	0
7.	60 - 70%	1
8.	70 - 80%	0
9.	80 - 90%	0
10.	90 - 100%	0
11.	100%	6

2545-08-03-04 Exhaust Aftertreatment System Logged Data

Information >> Conditions >> Execution >> **Result**

Information

Displays information about the number of regenerations performed and the percent complete of the performed regeneration

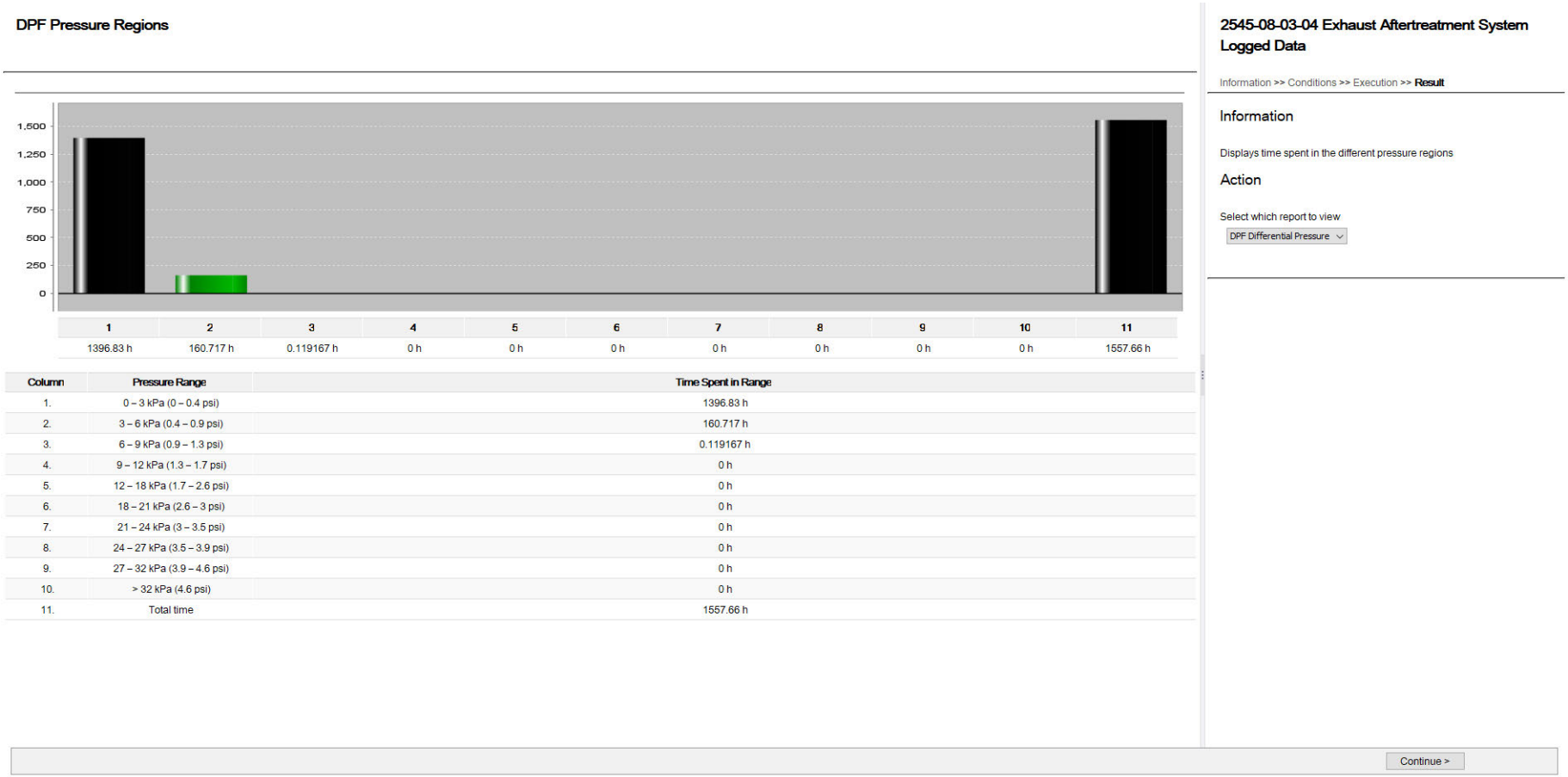
Action

Select which report to view

Completion History

Continue >

2.4.4. DPF Differential Pressure



DPF Pressure Regions

1,500
1,250
1,000
750
500
250
0

1	2	3	4	5	6	7	8	9	10	11
1396.83 h	160.717 h	0.119167 h	0 h	0 h	0 h	0 h	0 h	0 h	0 h	1557.66 h

Column	Pressure Range	Time Spent in Range
1.	0 – 3 kPa (0 – 0.4 psi)	1396.83 h
2.	3 – 6 kPa (0.4 – 0.9 psi)	160.717 h
3.	6 – 9 kPa (0.9 – 1.3 psi)	0.119167 h
4.	9 – 12 kPa (1.3 – 1.7 psi)	0 h
5.	12 – 18 kPa (1.7 – 2.6 psi)	0 h
6.	18 – 21 kPa (2.6 – 3 psi)	0 h
7.	21 – 24 kPa (3 – 3.5 psi)	0 h
8.	24 – 27 kPa (3.5 – 3.9 psi)	0 h
9.	27 – 32 kPa (3.9 – 4.6 psi)	0 h
10.	> 32 kPa (4.6 psi)	0 h
11.	Total time	1557.66 h

2545-08-03-04 Exhaust Aftertreatment System
Logged Data

Information >> Conditions >> Execution >> **Result**

Information

Displays time spent in the different pressure regions

Action

Select which report to view

DPF Differential Pressure

Continue >

2.5. Vehicle Life and Trip, Report

Vehicle Life and Trip Report not available.

2.6. Fuel Consumption Data

2.6.1. Service Trip - Table

2000-08-03-05 Fuel Consumption Data

14 Jul 2023 16:40:59 GMT

User name	[redacted]	Vehicle Identification Number (VIN)	2PCG33495EC735508
Partner ID	US585027	Company	VBC
Fleet ID		Model	PREVX
Chassis ID	PREVX 735508	Build date	06 Jun 2013 00:00:00 GMT
Emission level	US13	Odometer	54226.7 mi

	Time	Fuel	Distance	Consumption	Time %	Fuel %	Distance %
1. Moving	971.8 h	7292.6 galUS	1220554.15 mi	167.37 mi/galUS	62.38 %	90.22 %	100 %
2. Cruise Control	146.85 h	1162.89 galUS	9794.98 mi	8.42 mi/galUS	9.43 %	14.39 %	0.8 %
3. Idle (All)	585.95 h	790.01 galUS	-	-	37.61 %	9.77 %	-
4. Power take off 1	0 h	0 galUS	-	-	0 %	0 %	-
5. Highest gear	23.75 h	204.87 galUS	1569.2 mi	7.66 mi/galUS	1.52 %	2.53 %	0.13 %
6. Total	**1557.8 h**	**8083 galUS**	**1220554.15 mi**	**151 mi/galUS**			

Tripdata

Engine speed

65535 rpm	Userdefinedlimit
1557.95 h	Timeaboveuserdefinedlimit

Vehicle speed

158.45 mph	Averagevehiclespeed
4072.16 mph	Userdefinedlimit
971.85 h	Timeaboveuserdefinedlimit

Engine Overspeed Data

2200 rpm	Maximumenginespeed

1 Drive mode: Vehicle in motion
2 Cruise Control: Cruise Control function activated
3 Idle: Engine running and vehicle stationary
4 Power take off: Power take-off activated
5 Highest gear: Vehicle driven in highest gear
6 Total: Overall values

2.6.2. Life of Vehicle - Table

2000-08-03-05 Fuel Consumption Data

14 Jul 2023 16:40:59 GMT

User name	[redacted]	Vehicle Identification Number (VIN)	2PCG33495EC735508
Partner ID	US585027	Company	VBC
Fleet ID		Model	PREVX
Chassis ID	PREVX 735508	Build date	06 Jun 2013 00:00:00 GMT
Emission level	US13	Odometer	54226.7 mi

	Time	Fuel	Distance	Consumption	Time %	Fuel %	Distance %
1. Moving	972.58 h	7292.64 galUS	54226.7 mi	7.44 mi/galUS	62.43 %	90.22 %	100 %
2. Cruise Control	146.99 h	1162.93 galUS	9795.05 mi	8.42 mi/galUS	9.44 %	14.39 %	18.06 %
3. Idle (All)	585.96 h	790.01 galUS	-	-	37.61 %	9.77 %	-
4. Power take off 1	0 h	0 galUS	-	-	0 %	0 %	-
5. Highest gear	23.76 h	204.91 galUS	1569.22 mi	7.66 mi/galUS	1.53 %	2.54 %	2.89 %
6. Total	**1557.82 h**	**8083.09 galUS**	**54226.7 mi**	**6.71 mi/galUS**			

1 Drive mode: Vehicle in motion
2 Cruise Control: Cruise Control function activated
3 Idle: Engine running and vehicle stationary
4 Power take off: Power take-off activated
5 Highest gear: Vehicle driven in highest gear
6 Total: Overall values

2.7. Programming Parameters

VIN:	2PCG33495EC735508	Work Order Number:	E13130
Chassis ID:	PREVX 735508	Printed:	7/14/2023 4:50 PM
Model:	PREVX		
Reg. Number:			

1700-22-03-03 Parameter Programming

Control Unit: All
Parameter Type: All

ID	Name	Status	Min	Value	Max	Unit
P1FQ0	Target Fuel Economy	Read only	2352.1	0.1	0.1	mpg(US)
P1IP6	Customer Data Fleet Identifier			yyyyyyyyyyyy		
P1IP4	Customer Engine Speed Mode Trip Data, Engine Speed Threshold		0	65535	65535	rpm
P1IP5	Customer Vehicle Speed Mode Trip Data, Vehicle Speed Threshold		0.0	4072.2	4072.2	mph
P1AM4	Trim Code, Injector Cylinder 1			0UZ6BCDDH		
P1AM5	Trim Code, Injector Cylinder 2			62MFUU85K		
P1AM6	Trim Code, Injector Cylinder 3			G2M7HW9CT		
P1AM7	Trim Code, Injector Cylinder 4			3PR7E95MH		
P1AM8	Trim Code, Injector Cylinder 5			JP65XY1WV		
P1AM9	Trim Code, Injector Cylinder 6			0PLDYY0L9		
P1AOF	Customer Data, Engine ECU Password			••••••••		
P1I2A	Customer Shutdown for Oil Temperature		0	0	2	
P1I0H	Performance Bonus, Fuel Consumption, Target Value		2.988	6.492	9.643	mpg(US)
P1I0J	Performance Bonus, Idle Time, Target Value		0.00	25.00	80.07	%
P1I0K	Performance Bonus, Sweet Spot, Target Value		0.00	75.00	100.00	%
P1I0O	Performance Bonus, Distance in a Step		3.2	62.1	497.0	miles
P1I53	Performance Bonus Effective Distance		93.3	3000.0	10563.3	miles
P1I0G	Performance Bonus, Enable		0	0	1	
P1I0N	Performance Bonus, Function Mode		0	0	2	
P1I0L	Performance Bonus, Parameters		0	3	7	
P1I0M	Performance Bonus, Number of Steps		0	3	3	
P1I0I	Performance Bonus, Fuel Consumption, Penalty Target Value		2.988	8.127	9.643	mpg(US)
P1I2B	Customer Shutdown for Transmission Temperature		0	0	2	
P1JED	PTO Through Driveshaft, Enable		0	0	1	
P1I15	Fuel Consumption, Calibration in Percent		-10.05	0.00	10.05	%
P1I2E	PTO Integral Adjustment Based on Engine Speed Derivative		0	0	4	
P1I01	RSL, Enable Soft Cruise Functionality		0	2	4	
P1I0P	Performance Bonus, Vehicle Speed Bonus		0.0	0.0	24.8	mph
P1I0Q	Performance Bonus, Vehicle Speed Penalty		0.0	3.1	24.8	mph
AI	Cruise control max speed		19	86	86	mph
P1AOC	Customer Road Speed Limit		18.7	68.4	86.9	mph
P1G42	Minimum DPF inhibit target speed limit		5	16	37	mph
P1G43	Offset from vehicle speed for calculating DPF inhibit speed		-15	9	158	mph
P1I07	Diff RSL, Transmission Ratio Highest Gear		29.99	73.05	129.98	%
P1I08	Diff RSL, Transmission Ratio Next Highest Gear		29.99	86.04	150.00	%
P1AOD	Road Speed Limit, Max Vehicle Speed in Second Highest Gear		18.7	68.0	83.8	mph
P1I09	Road Speed Limit Maximum		18.7	68.0	86.9	mph
P1I16	Road Speed Limit With Pedal		0.0	86.9	86.9	mph
P1AL0	Differentiated RSL, Enable		0	0	1	
P1INE	Eco Level Used in SoftCruise Function		0.0	0.0	255.0	
P1HUM	PTO Switch Override		0	0	1	
P1I18	Customer Shutdown for Coolant Temperature		0	0	2	
P1I19	Customer Shutdown for Oil Pressure		0	0	2	
P1I17	Customer Shutdown for Coolant Level		0	0	2	
P1IRK	Accelerator Limiter, Enable		0	0	1	
P1I2F	Fan Enable with Engine Brake		0	0	4	
P1HUB	Cruise Control, SoftCruise Offset, Enable		0	0	1	
P1I06	High Idle Ratio for High Gears		100.01	140.04	650.00	
P1I05	High Idle Gear Ratio for Low Gears		100.01	159.96	650.00	
P1I04	High Idle Enable Flag for Low Gears		0	0	1	
P1I03	High Idle Governor for High Gears		1200	2100	2800	rpm
P1IDB	Max Engine Speed with a Vehicle Speed Error		600	2100	2900	
P1ANA	Max Engine Speed when Stationary		600	2200	2900	rpm
P1KCP	Max Engine Speed Governor for India, Enable			False		

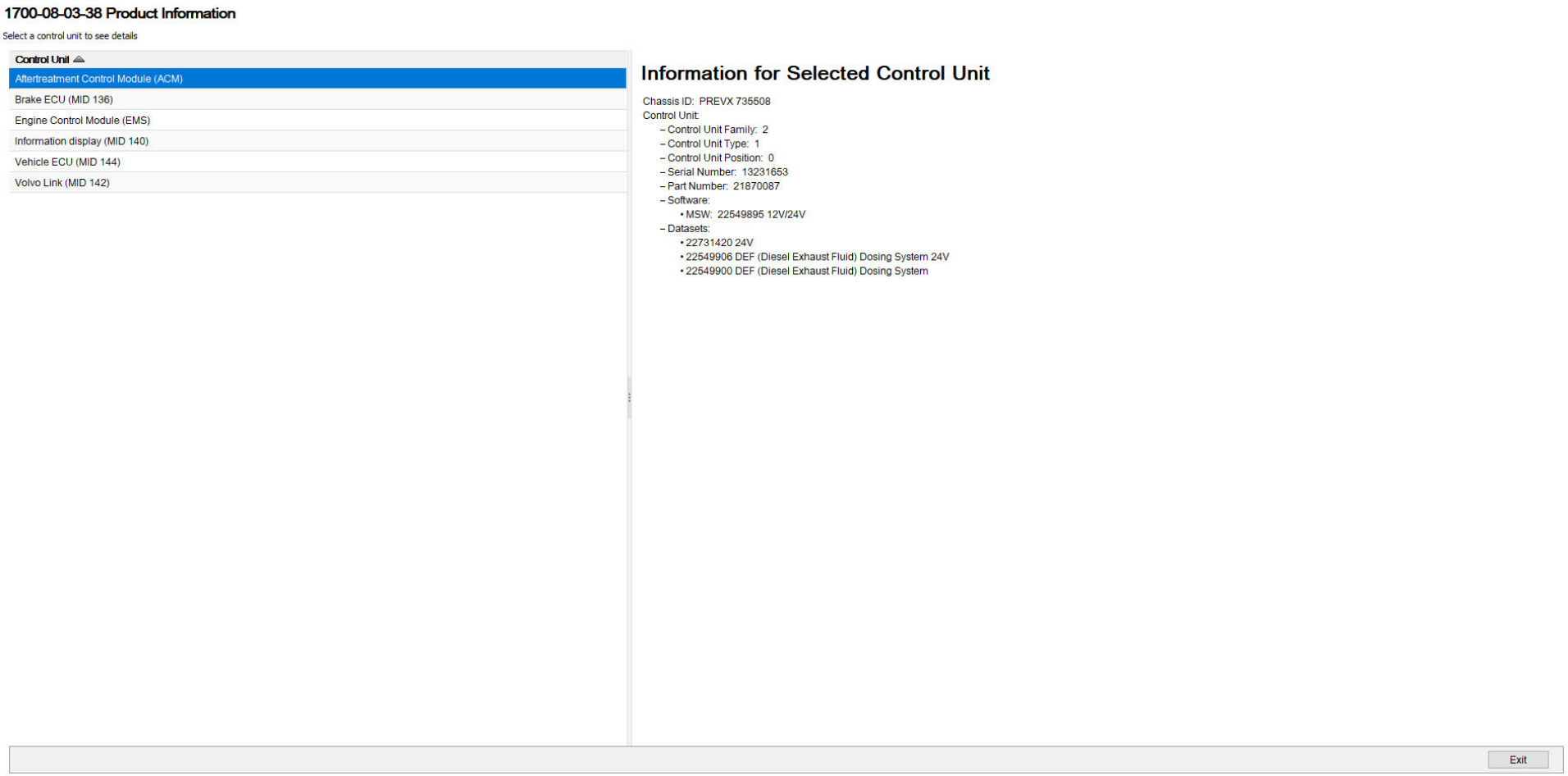
P1JGX	Resistance Factor, Eco Level	0	2	3	
HGU	Default unit distance	0	1	255	
HGV	Default unit fuel consumption	0	3	255	
HGW	Default unit volume	0	2	255	
AAU	Select Pressure Unit	0	0	1	
AAR	Select Temp Unit		Fahrenheit		
CNU	Display and sound configuration	0	8	255	
DUR	Immobilizer Pin Code	0	111	999	
PLA	Auto immobilizer mode		Off		
PLB	Immobilizer key-off timer	0	0	60	min
BNP	Vehicle ECU diagnostic	0	175	255	
AKB	Turbo pressure gauge	0	1	255	
QAD	Fuel Level Sensor, Type	10	10	12	
IBS	Broadcast_CM1_Enable		On		
CNB	Menus in Display Settings	0	31	255	
HVK	Performance Bonus Guide - Enable Sweet Spot Data		Disable		
IBO	DPF_Menu_Enable		On		
IBP	DPF_Status_Menu_Enable		On		
IBQ	DPF_Regen_Menu_Enable		On		
IBR	DPF_Cancel_Menu_Enable		On		
JZU	Enable Pre-trip Menu		Enable		
BIE	compass menu		On		
NSV	Enable trans fluid life		On		
HWH	Performance Bonus II - Enable Sweet Spot Gauge		Disable		
HWJ	Performance Bonus II - Enable Summary Gauge		Disable		
HVJ	Performance Bonus II - Enable RSL Gauge		Disable		
HVI	Performance Bonus II - Enable Fuel Economy Gauge		Disable		
HWI	Performance Bonus II - Enable Idle Time Gauge		Disable		
PVM	Battery monitor enabled		No		
PVN	Fuel saved gauge enable		No		
NSW	Brake lining upper trip point	0	28	100	%
NSX	Brake lining lower trip point	0	8	100	%
NRF	ACC Alert Volume	0	9	100	
FLN	Performance Bonus Guide with Sweet Spot - Enable		Off		
DXN	Performance Bonus II – Enable Feature in Display		Off		
IRY	Level 1, regeneration needed	0	0	2	
IRZ	Level 2, regeneration required	0	1	2	
ISA	Level 3, ATS service is required	0	1	2	
HJZ	Seat Belt Reminder	0	1	2	
NSY	Enable odometer in display		On		
ADX	Performance Bonus Target Fuel	2.98723	2.98723	9.64379	mpg(US)
ADY	Performance Bonus Target Idle	0	55	80	%
FWX	Performance Bonus Sweet-spot Target	0	82	100	%
HPL	Maintenance string 1		Customer 12345		
HPM	Maintenance string 2		Customer 23456		
HPN	Maintenance string 3		Customer 34567		
HPO	Maintenance string 4		Customer 45678		
HDE	Date_RTC_Year	0	23	255	
HDF	Date_RTC_Month	0	7	255	
HDG	Date_RTC_day	0	12	255	
HDH	Date_RTC_hour	0	5	255	
HDD	Date RTC Minutes	0	54	255	
HDB	Date Hour	0	253	255	
HDC	Date Minutes	0	253	255	
HDA	Date Day	0	255	255	
HCZ	Date Month	0	0	255	
HDI	Date Year	0	0	255	
KAA	TPM Sensor ID 1	0	0	4294967295	
KAB	TPM Sensor ID 2	0	0	4294967295	
KAC	TPM Sensor ID 3	0	0	4294967295	
KAD	TPM Sensor ID 4	0	0	4294967295	
KAE	TPM Sensor ID 5	0	0	4294967295	
KAF	TPM Sensor ID 6	0	0	4294967295	

KAG	TPM Sensor ID 7		0	0	4294967295	
KAH	TPM Sensor ID 8		0	0	4294967295	
KAI	TPM Sensor ID 9		0	0	4294967295	
KAJ	TPM Sensor ID 10		0	0	4294967295	
XM	Parking brake condition to activate PTO1			No		
HLP	Datamax available		0	2	4	
HLQ	Tacho type		0	0	4	
HLS	J1587 used by TGW		0	1	2	
HLT	TIS variant		0	2	3	
MGN	J1939 used by TGW		0	1	2	
MGO	External Modem		0	0	2	
MGP	Telematics Gate Way (TGW) Installation Environment		0	14	20	
JBN	Antenna ICON enables		0.0	3.0	3.0	
P1E3I	Engine Idle, Minimum Allowed Speed	Read only	0	550	600	rpm
P1F9W	Engine Idle, Target Speed		550	600	700	rpm
AZM	Enable second speed axle			No		
CCV	Cruise reference speed mode			Erase at power down		
CCW	Default cruise reference speed		0.0	0.0	155.3	mph
CX	Air Conditioning Installed			No		
UJ	Enable BBM	Read only		No		
CUQ	Enables the function VS threshold output			Off		
DZY	Enable brake cruise			Enabled switch / stalk dependant		
ECM	Engine Torque Limit Percentage	Read only	0	0	100	%
JAX	Time delay before fan act upon APM compressor req		0	20	255	s
MZF	Cooling fan activation delay, after charging start		5	30	30	s
RT	ES Control step up rpm (PTO 0)		0	50	250	r/min
DJ	Brake cruise control, default speed		1.87	2.65	3.10	mph
AG	Cruise control			Yes		
BK	Cruise Control Min Set Speed		18.7	18.7	67.7	mph
BL	Cruise Control Min Speed to Resume		9.4	9.4	18.6	mph
RS	Cruise step factor		0.0	1.2	6.2	mph
RR	Cruise trim factor, minus		0.00	1.24	6.21	miles/h/s
GP	Cruise trim factor plus		0.00	1.24	6.21	miles/h/s
AST	Cruise control Trim step, resume		0.00	1.24	6.21	miles/h/s
CCU	Clutch delay before cruise deactivation		0	5	10	s
AL	Idling automatic shut-off			No		
XP	Enable brake pedal cond for High Idle			Yes		
AZG	Enable parking brake cond for High Idle			No		
QP	PTO basic function enable			Yes		
XO	Activate PTO output from vehicle control unit			Yes		
XN	Type of PTO			Engine #1		
ANE	Resume or target espd for PTO 0		500	1000	2500	r/min
AND	Maximum engine speed for the ESC PTO 0		1000	2500	3500	r/min
DA	Max vehicle speed for High Idle		3.2	7.5	9.3	mph
ANF	High idle/PTO 0 min engine speed		500	500	1000	r/min
DB	PTO min vehicle speed		1.3	3.1	7.4	mph
AZH	Enable act of High Idle by engaging PTO			No		
MH	Vehicle Speed Factor US		4828.1	28115.2	105468.3	imp/mile
LZG	Timeout acc pedal vs clutch for inhibit DR		0	500	65535	ms
LMY	Brake Program delay		0	1000	65535	ms
DGM	Time before push is seen as a ramp		0.01	0.25	2.49	s
DTO	Max vehicle speed to activate idle adjust		0.0	18.6	155.3	mph
DHB	Max time to activate idle adjust function		0	2000	25500	ms
FTF	Idle Store Time		100	2000	20000	ms
FTG	Idle adjust trim factor		1	10	100	r/min/s
DHA	Time before PTO activation is seen as a ramp		0.00	0.25	2.54	s
BXA	Enable Engine Speed Control			Yes		
BXE	ES Control trim ramp up		0	50	250	r/min/s
BXF	ES Control trim ramp down		0	50	250	r/min/s
BXI	ES Control Step Down Factor (PTO0)		0	50	250	r/min
BYR	ES Control PTO0, activation condition on clutch			Pedal released		

BYT	Clutch cond for High Idle/PTO 0 deact.		Pedal depressed		
BZG	Max VS to activate PTO 1	0.0	1.2	155.3	mph
CVG	Enable max VS condition to activate PTO1		No		
CUL	Enable engine start from chassis		Off		
DHL	Enable Speed Threshold 2 function		Off		
DXM	Enable engine speed limit when PTO active (PTO0)		Off		
FZG	PTO 0 Min, enable engine speed	0	0	65535	r/min
FZI	PTO 1 min enable engine speed	0	0	65535	r/min
GEQ	Enable min ES condition to activate PTO 1		No		
MBD	Enable Engine Speed (ES) as PTO exit condition		Yes		
MAM	Time wait for PTO entry condition	0	0	10000	ms
ZZN	LOV Pto Option		Yes		
ZWA	LOV Asr Option		Yes		
ZW6	LOV ABS Option		Yes		
ZW2	LOV Esp Option		Yes		
ZVY	LOV Brake Assist Option		No		
ZVL	LOV Axle Lift Option		No		
ZV5	LOV Retarder Brake Option		No		
ZUS	LOV Park Brake Filter		No		
ZUM	LOV Transmission Option		No		
ZPZ	Optional Event Selector	0	520316	4294967295	
XLZ	LOV Engine Over Load Thrs	0	90	125	%
YUJ	Degradation User Enable		No		
YUH	User Read Access		No		
YUG	Degradation User Warning		No		
YUF	Degradation User Alarm		No		
YUE	User Send Data		Send data vehicle distance		
YUC	User Reset Access		No		
YTZ	Degradation Reset Type		Reset type auto		
YQ6	Tech Ctrl User Enable		No		
YQ5	Ctrl User Read Access		No		
YQ4	Tech Ctrl User Warning		No		
Y0W	Retarder Option		Yes		
Y0V	LOV Engine Retarder Option		Yes		
XZ9	Control of user alarm		No		
XZ8	Control of user sent data		Send data vehicle distance		
XZ6	Control of user reset access		No		
XYT	Control of reset type		Reset type auto		
XRV	LOV engine speed above option		No		
ZYS	LOV Hard Braking Threshold	-12.4274241924	-7.9540369294	0.0000000000	miles/h/s
ZXA	LOV Engine Overspeed Company Threshold	500.000	2150.000	3500.000	r/min
ZX2	Vehicle Overspeed All Threshold	0.000000000	65.243977010	158.452085684	mph
ZQ0	Driver Event OEM Enable		Yes		
Z6A	Fault Inactive Time	0	3	255	s
YTY	Reset External Allowed		No		
Y3X	LOV Engine Speed Above Threshold	0.000	2200.000	3000.125	r/min
Y3W	Above Threshold Low Hysterisis	0.000	2150.000	3000.125	r/min
Y3M	Engine speed above brake threshold value	0.000	0.000	4000.000	r/min
Y3E	Over without brake threshold value	0.000	0.000	4000.000	r/min
Y37	Engine Green Area Low Threshold	0.000	900.000	4500.000	r/min
Y36	Green Area High Threshold	0.000	1600.000	4500.000	r/min
Y35	Area High Threshold Hysteresis	0.000	1550.000	4500.000	r/min
XYS	Reset external allowed		No		
YUB	Alarm Thrs Engn Time	0	0	394200000	s
YU9	Alarm Thrs Vehicle Dist	0.00	0.00	20231274760.65	ft
YU7	Alarm Thrs Calendar Time	0	0	2130706432	s
YU5	Warning Thrs Engn Time	0	0	394200000	s

YU3	Thrs Vehicle Dist		0.00	0.00	20231274760.65 ft
YU1	Thrs Calendar Time		0	0	2130706432 s
XZ5	Alarm Thrs Engn Time		0	0	394200000 s
XZ3	Alarm Thrs Vehicle Dist		0.00	0.00	20231274760.65 ft
XZ1	Alarm Thrs Calendar Time		0	0	2130706432 s
XYZ	Warning Thrs Engn Time		0	0	394200000 s
XYX	Thrs Vehicle Dist		0.00	0.00	20231274760.65 ft
XYV	Thrs Calendar Time		0	0	2130706432 s
HLR	IMSI	Read only		310410577642441	
AI	Cruise control max speed	Inconsistent		Inconsistent	

2.8. Product Information



1700-08-03-38 Product Information

Select a control unit to see details

Control Unit
Aftertreatment Control Module (ACM)
Brake ECU (MID 136)
Engine Control Module (EMS)
Information display (MID 140)
Vehicle ECU (MID 144)
Volvo Link (MID 142)

Information for Selected Control Unit

Chassis ID:
Control Unit:
- MID caption: Brake ECU
- MID number: 136
- Serial Number:
- Part Number:
- Software:
- Datasets:

Exit

1700-08-03-38 Product Information

Select a control unit to see details

Control Unit
Aftertreatment Control Module (ACM)
Brake ECU (MID 136)
Engine Control Module (EMS)
Information display (MID 140)
Vehicle ECU (MID 144)
Volvo Link (MID 142)

Information for Selected Control Unit

Chassis ID: PREVX 735508
Control Unit:
- Control Unit Family: 1
- Control Unit Type: 1
- Control Unit Position: 0
- Serial Number: 22231533
- Part Number: 22423434
- Software:
  - MSW: 23036505 Volvo
- Datasets:
  - 23114777 Prevost 435 HP (Allison)
  - 23114784 Prevost
  - 23036509 Engine

Exit

1700-08-03-38 Product Information

Select a control unit to see details

Control Unit
Aftertreatment Control Module (ACM)
Brake ECU (MID 136)
Engine Control Module (EMS)
Information display (MID 140)
Vehicle ECU (MID 144)
Volvo Link (MID 142)

Information for Selected Control Unit

Chassis ID: PREVX 735508
Control Unit:
- MID caption: Information display
- MID number: 140
- Serial Number: 13222051
- Part Number: 21874708
- Software:
  - MSW: 23971213 Instrument Cluster
  - CSW: 21548319 CINSTR
- Datasets:
  - 21728608 CINSTR DST1
  - 23600222 Instrument Cluster

Exit

1700-08-03-38 Product Information

Select a control unit to see details

Control Unit
Aftertreatment Control Module (ACM)
Brake ECU (MID 136)
Engine Control Module (EMS)
Information display (MID 140)
Vehicle ECU (MID 144)
Volvo Link (MID 142)

Information for Selected Control Unit

Chassis ID: PREVX 735508
Control Unit:
- MID caption: Vehicle ECU
- MID number: 144
- Serial Number: 13030352
- Part Number: 21874686
- Software:
  - MSW: 22135098 VECU 4
- Datasets:
  - 22049875 VECU4
  - 22049887 VECU4

Exit

1700-08-03-38 Product Information

Select a control unit to see details

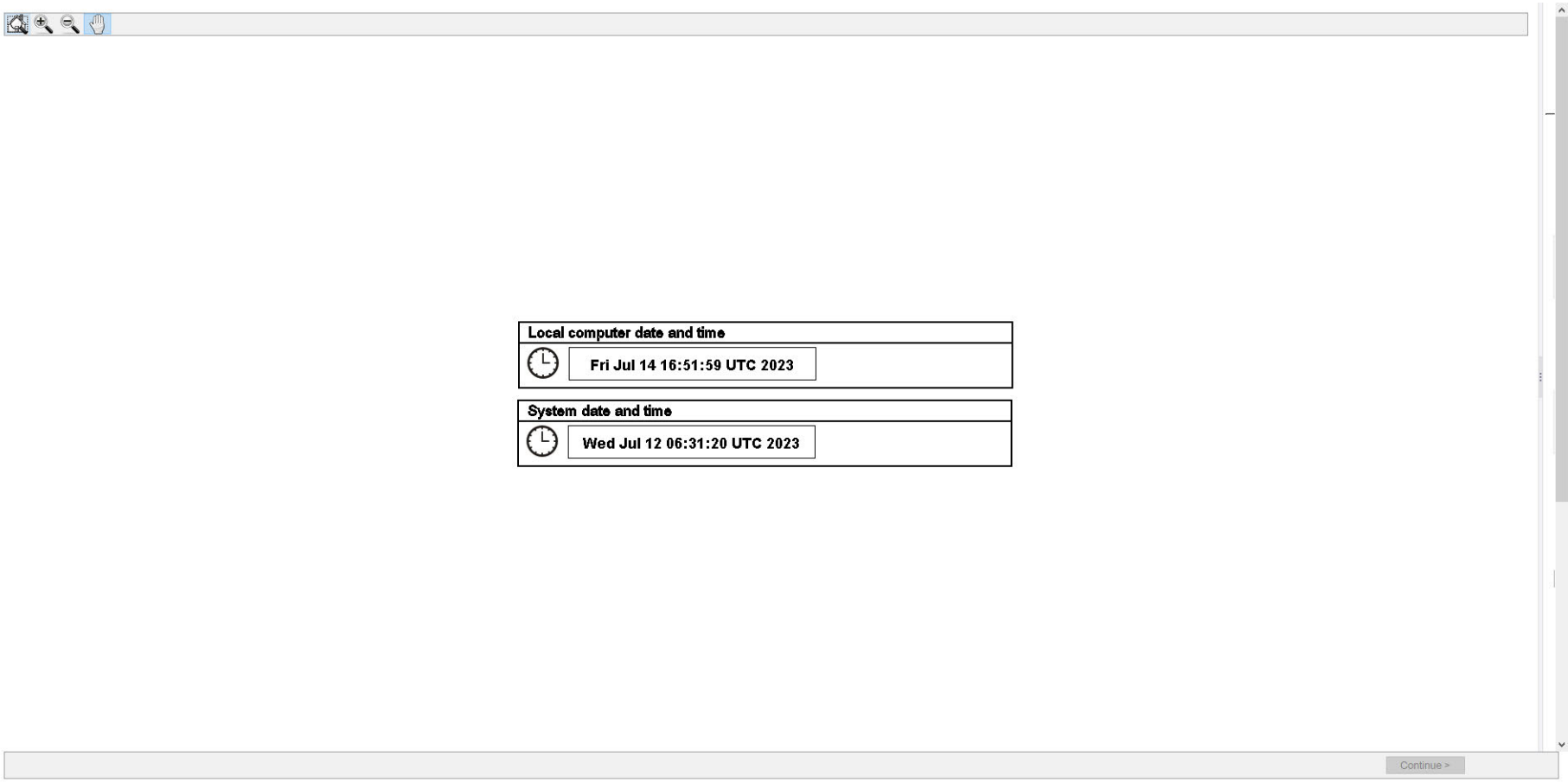
Control Unit
Aftertreatment Control Module (ACM)
Brake ECU (MID 136)
Engine Control Module (EMS)
Information display (MID 140)
Vehicle ECU (MID 144)
Volvo Link (MID 142)

Information for Selected Control Unit

Chassis ID: PREVX 735508
Control Unit:
- MID caption: Volvo Link
- MID number: 142
- Serial Number: 13100839
- Part Number: 21284312
- Software:
  - MSW: 21975723 TGW VTNA
  - CSW: 21469688 CSW VTNA
- Datasets:
  - 21385190 Telematic Gateway
  - 21385191 TGW

Exit

2.9. System Date and Time



*The times shown above are adusted to (UTC) Coordinated Universal Time.

3. DataMax Incident Log Information

3.1.1. **Logged Incident Table No. 1**

Data Source: **Acceleration-Triggered Event Data**
VIN:
Vehicle Unit ID: **PREVX735508**
Imaging Date & Time: **Friday July 14 2023 16:19:35** **(UTC) Coordinated Universal Time**
Incident Date & Time: **Wednesday July 12 2023 05:48:32** **(UTC) Coordinated Universal Time**
Odometer At Incident: **1,220,554.2 (miles)**

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-60.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-59.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-59.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-59.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-59.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-58.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-58.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-58.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-58.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-57.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-57.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-57.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-57.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-56.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-56.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-56.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-56.00	Sec Before Trigger	100%	3.1 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-55.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-55.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-55.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-55.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-54.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-54.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-54.25	Sec Before Trigger	100%	3.1 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake SW3 - Clutch Pushed SW5 - Engine Brake High SW7 - Key Switch
SW2- Park Brake SW4 - Engine Brake Low SW6 - Cruise Control SW8 - Undefined

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-54.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-53.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-53.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-53.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-53.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-52.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-52.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-52.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-52.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-51.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-51.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-51.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-51.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-50.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-50.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-50.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-50.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-49.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-49.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-49.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-49.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-48.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-48.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-48.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-48.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-47.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-47.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-47.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-47.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-46.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-46.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-46.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-46.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-45.75	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-45.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-45.25	Sec Before Trigger	100%	3.1 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-45.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-44.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-44.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-44.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-44.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-43.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-43.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-43.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-43.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-42.75	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-42.50	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-42.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-42.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-41.75	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-41.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-41.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-41.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-40.75	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-40.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-40.25	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-40.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-39.75	Sec Before Trigger	100%	3.1 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-39.50	Sec Before Trigger	100%	2.5 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-39.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-39.00	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-38.75	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-38.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-38.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-38.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-37.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-37.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-37.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-37.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-36.75	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-36.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-36.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-36.00	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-35.75	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-35.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-35.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-35.00	Sec Before Trigger	100%	2.5 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-34.75	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-34.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-34.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-34.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-33.75	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-33.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-33.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-33.00	Sec Before Trigger	100%	2.5 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-32.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-32.50	Sec Before Trigger	100%	2.5 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-32.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-32.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-31.75	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-31.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-31.25	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-31.00	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-30.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-30.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-30.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-30.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-29.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-29.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-29.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-29.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-28.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-28.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-28.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-28.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-27.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-27.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-27.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-27.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-26.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-26.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake SW3 - Clutch Pushed SW5 - Engine Brake High SW7 - Key Switch

SW2- Park Brake SW4 - Engine Brake Low SW6 - Cruise Control SW8 - Undefined

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-26.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-26.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-25.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-25.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-25.25	Sec Before Trigger	100%	3.1 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-25.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-24.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-24.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-24.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-24.00	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-23.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-23.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-23.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-23.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-22.75	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-22.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-22.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-22.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-21.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-21.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-21.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-21.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-20.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-20.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-20.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-20.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-19.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-19.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-19.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-19.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-18.75	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-18.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-18.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-18.00	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-17.75	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-17.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-17.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake SW3 - Clutch Pushed SW5 - Engine Brake High SW7 - Key Switch

SW2- Park Brake SW4 - Engine Brake Low SW6 - Cruise Control SW8 - Undefined

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-17.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-16.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-16.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-16.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-16.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-15.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-15.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-15.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-15.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-14.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-14.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-14.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-14.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-13.75	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-13.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-13.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-13.00	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-12.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-12.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-12.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-12.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-11.75	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-11.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-11.25	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-11.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-10.75	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-10.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-10.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-10.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-9.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-9.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-9.25	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-9.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-8.75	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-8.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-8.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-8.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-7.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-7.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-7.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-7.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-6.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-6.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-6.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-6.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-5.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-5.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-5.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-5.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-4.75	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-4.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-4.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-4.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-3.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-3.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-3.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-3.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-2.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-2.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-2.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-2.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-1.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-1.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-1.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-1.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-0.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-0.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-0.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
0.00	Trigger Occured	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
0.25	Sec After Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
0.50	Sec After Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
0.75	Sec After Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
1.00	Sec After Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
1.25	Sec After Trigger	93%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

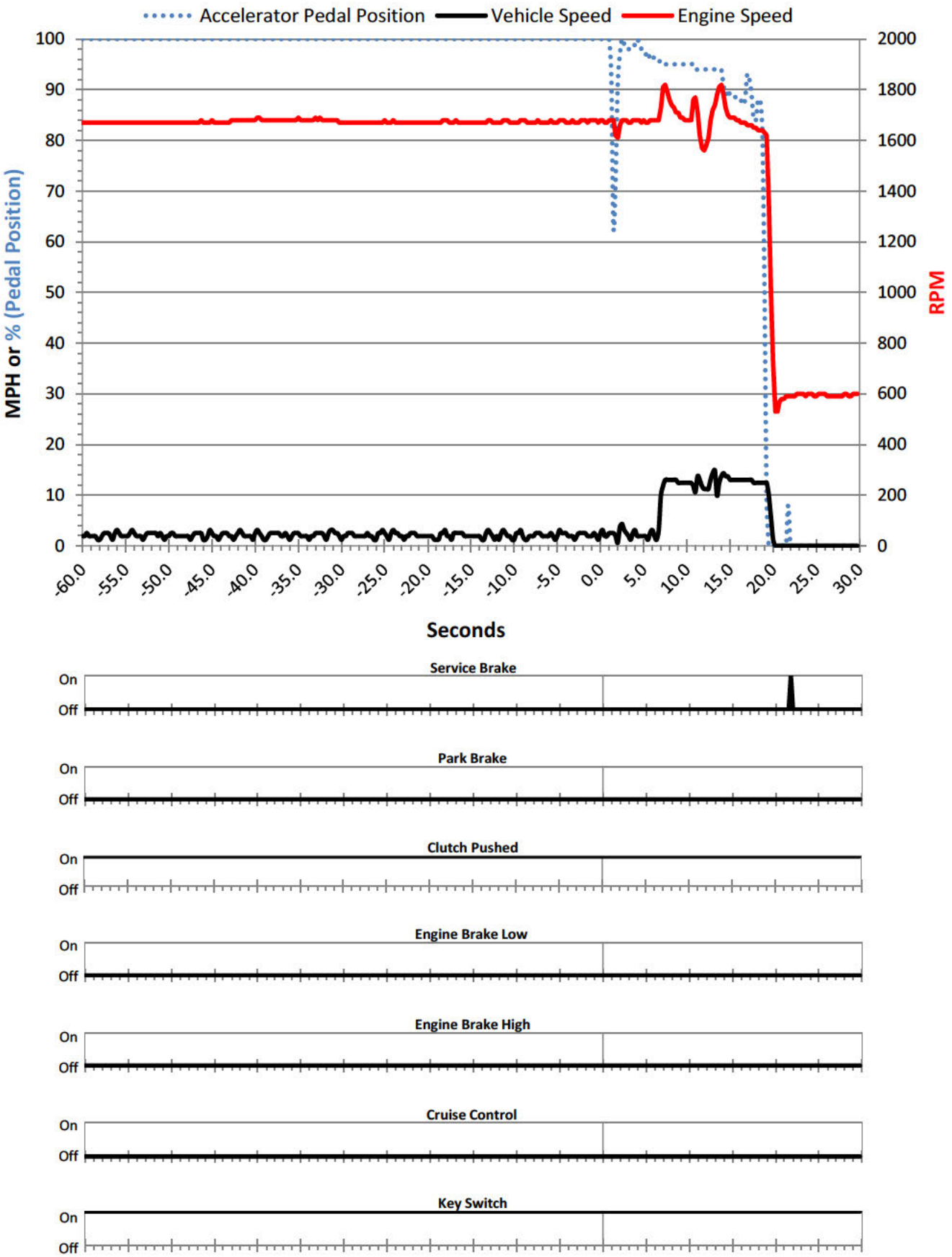
TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
1.50	Sec After Trigger	63%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
1.75	Sec After Trigger	72%	1.9 MPH	1620 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
2.00	Sec After Trigger	91%	0.6 MPH	1610 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
2.25	Sec After Trigger	97%	3.7 MPH	1660 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
2.50	Sec After Trigger	100%	4.3 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
2.75	Sec After Trigger	99%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
3.00	Sec After Trigger	98%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
3.25	Sec After Trigger	98%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
3.50	Sec After Trigger	98%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
3.75	Sec After Trigger	98%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
4.00	Sec After Trigger	99%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
4.25	Sec After Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
4.50	Sec After Trigger	99%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
4.75	Sec After Trigger	98%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
5.00	Sec After Trigger	97%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
5.25	Sec After Trigger	97%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
5.50	Sec After Trigger	96%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
5.75	Sec After Trigger	97%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
6.00	Sec After Trigger	97%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
6.25	Sec After Trigger	96%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
6.50	Sec After Trigger	96%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
6.75	Sec After Trigger	96%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7.00	Sec After Trigger	95%	9.9 MPH	1730 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7.25	Sec After Trigger	95%	11.8 MPH	1810 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7.50	Sec After Trigger	95%	13.0 MPH	1820 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
7.75	Sec After Trigger	95%	13.0 MPH	1790 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
8.00	Sec After Trigger	95%	13.0 MPH	1760 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
8.25	Sec After Trigger	95%	13.0 MPH	1740 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
8.50	Sec After Trigger	95%	13.0 MPH	1730 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
8.75	Sec After Trigger	95%	13.0 MPH	1710 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
9.00	Sec After Trigger	95%	12.4 MPH	1710 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
9.25	Sec After Trigger	95%	12.4 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
9.50	Sec After Trigger	95%	12.4 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
9.75	Sec After Trigger	95%	12.4 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
10.00	Sec After Trigger	95%	12.4 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
10.25	Sec After Trigger	95%	12.4 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
10.50	Sec After Trigger	95%	12.4 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
10.75	Sec After Trigger	95%	11.8 MPH	1760 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
11.00	Sec After Trigger	94%	10.6 MPH	1770 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
11.25	Sec After Trigger	94%	13.7 MPH	1710 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
11.50	Sec After Trigger	94%	13.0 MPH	1620 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
11.75	Sec After Trigger	94%	11.8 MPH	1570 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
12.00	Sec After Trigger	94%	11.2 MPH	1560 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
12.25	Sec After Trigger	94%	11.2 MPH	1580 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
12.50	Sec After Trigger	94%	11.2 MPH	1610 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
12.75	Sec After Trigger	94%	13.0 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
13.00	Sec After Trigger	94%	14.3 MPH	1720 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
13.25	Sec After Trigger	94%	14.9 MPH	1740 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
13.50	Sec After Trigger	94%	9.9 MPH	1780 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
13.75	Sec After Trigger	94%	12.4 MPH	1810 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
14.00	Sec After Trigger	94%	13.7 MPH	1820 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
14.25	Sec After Trigger	91%	14.3 MPH	1780 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
14.50	Sec After Trigger	89%	13.7 MPH	1730 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
14.75	Sec After Trigger	90%	13.7 MPH	1700 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
15.00	Sec After Trigger	89%	13.0 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
15.25	Sec After Trigger	89%	13.0 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
15.50	Sec After Trigger	89%	13.0 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
15.75	Sec After Trigger	88%	13.0 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
16.00	Sec After Trigger	88%	13.0 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
16.25	Sec After Trigger	88%	13.0 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
16.50	Sec After Trigger	87%	13.0 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
16.75	Sec After Trigger	88%	13.0 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
17.00	Sec After Trigger	93%	13.0 MPH	1660 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
17.25	Sec After Trigger	92%	13.0 MPH	1660 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
17.50	Sec After Trigger	89%	13.0 MPH	1660 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
17.75	Sec After Trigger	84%	12.4 MPH	1650 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
18.00	Sec After Trigger	84%	12.4 MPH	1650 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
18.25	Sec After Trigger	88%	12.4 MPH	1640 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
18.50	Sec After Trigger	88%	12.4 MPH	1640 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
18.75	Sec After Trigger	82%	12.4 MPH	1640 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
19.00	Sec After Trigger	51%	12.4 MPH	1630 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
19.25	Sec After Trigger	9%	12.4 MPH	1620 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
19.50	Sec After Trigger	0%	9.9 MPH	1340 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
19.75	Sec After Trigger	0%	5.6 MPH	990 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
20.00	Sec After Trigger	0%	1.2 MPH	720 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
20.25	Sec After Trigger	0%	0.0 MPH	530 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
20.50	Sec After Trigger	0%	0.0 MPH	530 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
20.75	Sec After Trigger	0%	0.0 MPH	570 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
21.00	Sec After Trigger	0%	0.0 MPH	580 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
21.25	Sec After Trigger	0%	0.0 MPH	580 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
21.50	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
21.75	Sec After Trigger	8%	0.0 MPH	590 RPM	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
22.00	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
22.25	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
22.50	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
22.75	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
23.00	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
23.25	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
23.50	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
23.75	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
24.00	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
24.25	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
24.50	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
24.75	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
25.00	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
25.25	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
25.50	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
25.75	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
26.00	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
26.25	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
26.50	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
26.75	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
27.00	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
27.25	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
27.50	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
27.75	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
28.00	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
28.25	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
28.50	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
28.75	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
29.00	Sec After Trigger	0%	0.0 MPH	590 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
29.25	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
29.50	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
29.75	Sec After Trigger	0%	0.0 MPH	600 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

3.1.2. Logged Incident Chart No. 1 – Acceleration-Triggered Event Data



3.1.3. Logged Incident Table No. 2

Data Source: **Last Stop Data**
VIN:
Vehicle Unit ID: **PREVX735508**
Imaging Date & Time: **Friday July 14 2023 16:19:35** **(UTC) Coordinated Universal Time**
Incident Date & Time: **Wednesday July 12 2023 05:48:52** **(UTC) Coordinated Universal Time**
Odometer At Incident: **1,220,554.2 (miles)**

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-89.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-89.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-89.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-89.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-88.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-88.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-88.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-88.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-87.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-87.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-87.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-87.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-86.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-86.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-86.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-86.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-85.75	Sec Before Trigger	100%	3.1 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-85.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-85.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-85.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-84.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-84.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-84.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-84.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-83.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-83.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-83.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-83.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-82.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-82.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-82.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-82.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-81.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-81.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-81.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-81.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-80.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-80.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-80.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-80.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-79.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-79.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-79.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-79.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-78.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-78.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-78.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-78.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-77.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-77.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-77.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-77.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-76.75	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-76.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-76.25	Sec Before Trigger	100%	3.1 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-76.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-75.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-75.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-75.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-75.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-74.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-74.50	Sec Before Trigger	100%	3.1 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-74.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake SW3 - Clutch Pushed SW5 - Engine Brake High SW7 - Key Switch
SW2- Park Brake SW4 - Engine Brake Low SW6 - Cruise Control SW8 - Undefined

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-74.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-73.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-73.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-73.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-73.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-72.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-72.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-72.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-72.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-71.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-71.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-71.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-71.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-70.75	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-70.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-70.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-70.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-69.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-69.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-69.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-69.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-68.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-68.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-68.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-68.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-67.75	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-67.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-67.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-67.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-66.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-66.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-66.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-66.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-65.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-65.50	Sec Before Trigger	100%	3.1 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-65.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-65.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-64.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-64.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-64.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-64.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-63.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-63.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-63.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-63.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-62.75	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-62.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-62.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-62.00	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-61.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-61.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-61.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-61.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-60.75	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-60.50	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-60.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-60.00	Sec Before Trigger	100%	3.1 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-59.75	Sec Before Trigger	100%	2.5 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-59.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-59.25	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-59.00	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-58.75	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-58.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-58.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-58.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-57.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-57.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-57.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-57.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-56.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-56.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-56.25	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-56.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-55.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-55.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-55.25	Sec Before Trigger	100%	2.5 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-55.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-54.75	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-54.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-54.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-54.00	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-53.75	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-53.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-53.25	Sec Before Trigger	100%	2.5 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-53.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-52.75	Sec Before Trigger	100%	2.5 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-52.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-52.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-52.00	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-51.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-51.50	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-51.25	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-51.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-50.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-50.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-50.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-50.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-49.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-49.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-49.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-49.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-48.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-48.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-48.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-48.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-47.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-47.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-47.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-47.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-46.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-46.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-46.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-46.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-45.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-45.50	Sec Before Trigger	100%	3.1 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-45.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-45.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-44.75	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-44.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-44.25	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-44.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-43.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-43.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-43.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-43.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-42.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-42.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-42.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-42.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-41.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-41.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-41.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-41.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-40.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-40.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-40.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-40.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-39.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-39.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-39.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-39.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-38.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-38.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-38.25	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-38.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-37.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-37.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-37.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-37.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-36.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-36.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-36.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-36.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-35.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-35.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-35.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-35.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-34.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-34.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-34.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-34.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-33.75	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-33.50	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-33.25	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-33.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-32.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-32.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-32.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-32.00	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-31.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-31.50	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-31.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-31.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-30.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-30.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-30.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-30.00	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-29.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-29.50	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-29.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-29.00	Sec Before Trigger	100%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-28.75	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-28.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-28.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-28.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-27.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-27.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-27.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-27.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-26.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-26.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-26.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-26.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-25.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-25.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-25.25	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-25.00	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-24.75	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-24.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-24.25	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-24.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-23.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-23.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-23.25	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-23.00	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-22.75	Sec Before Trigger	100%	2.5 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-22.50	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-22.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-22.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-21.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-21.50	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-21.25	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-21.00	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-20.75	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-20.50	Sec Before Trigger	100%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-20.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-20.00	Sec Before Trigger	100%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-19.75	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-19.50	Sec Before Trigger	100%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-19.25	Sec Before Trigger	100%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-19.00	Sec Before Trigger	93%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-18.75	Sec Before Trigger	63%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-18.50	Sec Before Trigger	72%	1.9 MPH	1620 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-18.25	Sec Before Trigger	91%	0.6 MPH	1610 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-18.00	Sec Before Trigger	97%	3.7 MPH	1660 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-17.75	Sec Before Trigger	100%	4.3 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-17.50	Sec Before Trigger	99%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-17.25	Sec Before Trigger	98%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-17.00	Sec Before Trigger	98%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-16.75	Sec Before Trigger	98%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-16.50	Sec Before Trigger	98%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-16.25	Sec Before Trigger	99%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-16.00	Sec Before Trigger	100%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-15.75	Sec Before Trigger	99%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-15.50	Sec Before Trigger	98%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-15.25	Sec Before Trigger	97%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-15.00	Sec Before Trigger	97%	1.9 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-14.75	Sec Before Trigger	96%	1.2 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-14.50	Sec Before Trigger	97%	2.5 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-14.25	Sec Before Trigger	97%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-14.00	Sec Before Trigger	96%	1.9 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-13.75	Sec Before Trigger	96%	1.2 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-13.50	Sec Before Trigger	96%	3.1 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-13.25	Sec Before Trigger	95%	9.9 MPH	1730 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-13.00	Sec Before Trigger	95%	11.8 MPH	1810 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-12.75	Sec Before Trigger	95%	13.0 MPH	1820 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-12.50	Sec Before Trigger	95%	13.0 MPH	1790 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-12.25	Sec Before Trigger	95%	13.0 MPH	1760 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-12.00	Sec Before Trigger	95%	13.0 MPH	1740 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-11.75	Sec Before Trigger	95%	13.0 MPH	1730 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-11.50	Sec Before Trigger	95%	13.0 MPH	1710 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-11.25	Sec Before Trigger	95%	12.4 MPH	1710 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-11.00	Sec Before Trigger	95%	12.4 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-10.75	Sec Before Trigger	95%	12.4 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-10.50	Sec Before Trigger	95%	12.4 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-10.25	Sec Before Trigger	95%	12.4 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-10.00	Sec Before Trigger	95%	12.4 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-9.75	Sec Before Trigger	95%	12.4 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-9.50	Sec Before Trigger	95%	11.8 MPH	1760 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake SW3 - Clutch Pushed SW5 - Engine Brake High SW7 - Key Switch
SW2- Park Brake SW4 - Engine Brake Low SW6 - Cruise Control SW8 - Undefined

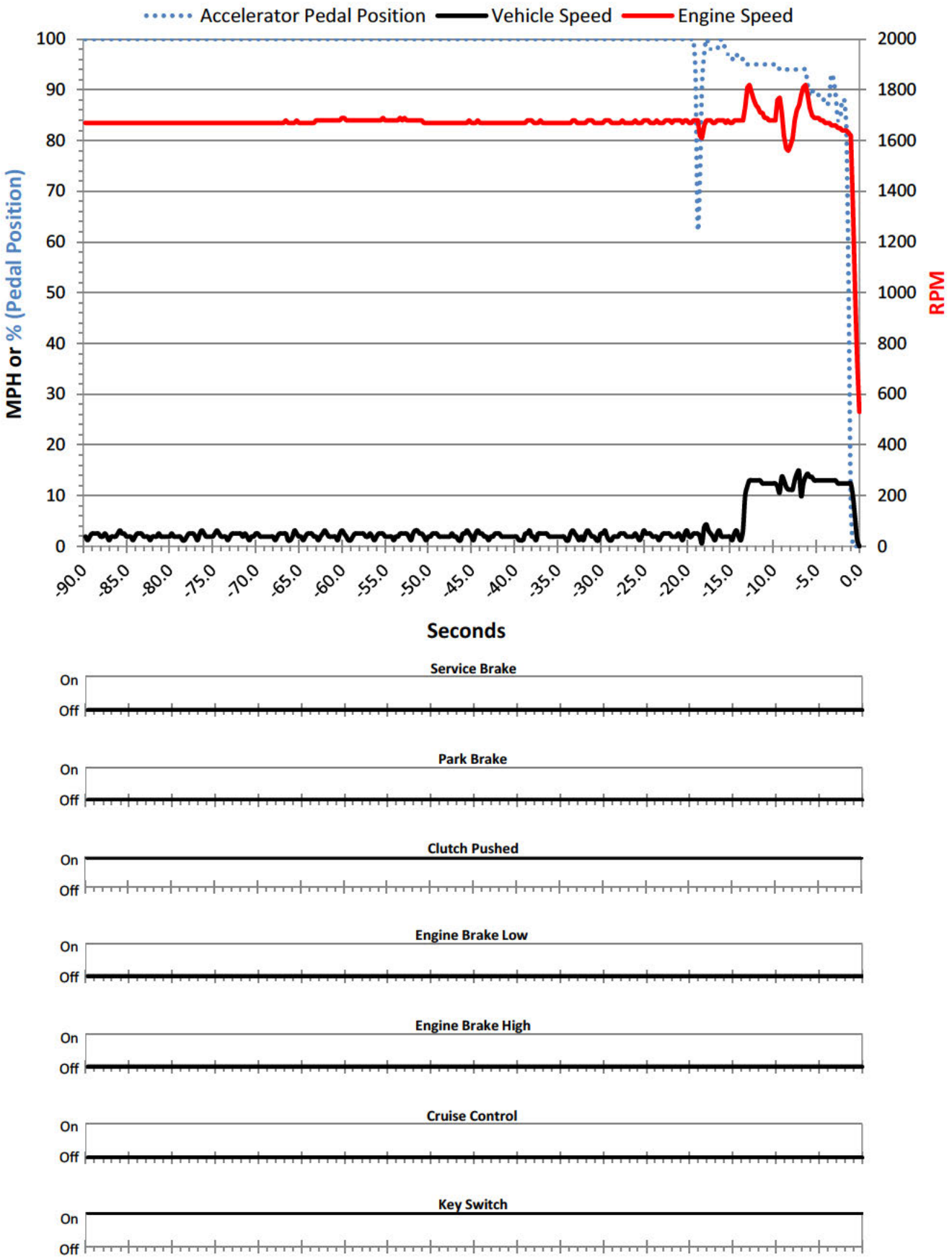
TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
-9.25	Sec Before Trigger	94%	10.6 MPH	1770 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-9.00	Sec Before Trigger	94%	13.7 MPH	1710 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-8.75	Sec Before Trigger	94%	13.0 MPH	1620 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-8.50	Sec Before Trigger	94%	11.8 MPH	1570 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-8.25	Sec Before Trigger	94%	11.2 MPH	1560 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-8.00	Sec Before Trigger	94%	11.2 MPH	1580 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-7.75	Sec Before Trigger	94%	11.2 MPH	1610 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-7.50	Sec Before Trigger	94%	13.0 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-7.25	Sec Before Trigger	94%	14.3 MPH	1720 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-7.00	Sec Before Trigger	94%	14.9 MPH	1740 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-6.75	Sec Before Trigger	94%	9.9 MPH	1780 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-6.50	Sec Before Trigger	94%	12.4 MPH	1810 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-6.25	Sec Before Trigger	94%	13.7 MPH	1820 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-6.00	Sec Before Trigger	91%	14.3 MPH	1780 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-5.75	Sec Before Trigger	89%	13.7 MPH	1730 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-5.50	Sec Before Trigger	90%	13.7 MPH	1700 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-5.25	Sec Before Trigger	89%	13.0 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-5.00	Sec Before Trigger	89%	13.0 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-4.75	Sec Before Trigger	89%	13.0 MPH	1690 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-4.50	Sec Before Trigger	88%	13.0 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-4.25	Sec Before Trigger	88%	13.0 MPH	1680 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-4.00	Sec Before Trigger	88%	13.0 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-3.75	Sec Before Trigger	87%	13.0 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-3.50	Sec Before Trigger	88%	13.0 MPH	1670 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-3.25	Sec Before Trigger	93%	13.0 MPH	1660 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-3.00	Sec Before Trigger	92%	13.0 MPH	1660 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-2.75	Sec Before Trigger	89%	13.0 MPH	1660 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-2.50	Sec Before Trigger	84%	12.4 MPH	1650 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-2.25	Sec Before Trigger	84%	12.4 MPH	1650 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-2.00	Sec Before Trigger	88%	12.4 MPH	1640 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-1.75	Sec Before Trigger	88%	12.4 MPH	1640 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-1.50	Sec Before Trigger	82%	12.4 MPH	1640 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-1.25	Sec Before Trigger	51%	12.4 MPH	1630 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-1.00	Sec Before Trigger	9%	12.4 MPH	1620 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-0.75	Sec Before Trigger	0%	9.9 MPH	1340 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-0.50	Sec Before Trigger	0%	5.6 MPH	990 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
-0.25	Sec Before Trigger	0%	1.2 MPH	720 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

SW1 - Service Brake SW3 - Clutch Pushed SW5 - Engine Brake High SW7 - Key Switch

SW2- Park Brake SW4 - Engine Brake Low SW6 - Cruise Control SW8 - Undefined

TIME	BEFORE/AFTER	Accelerator Pedal Position	Vehicle Speed	Engine Speed	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
0.00	Trigger Occured	0%	0.0 MPH	530 RPM	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF

3.1.4. Logged Incident Chart No. 2 –Last Stop Data



Note: Unless specified otherwise, data measurements are displayed in English

Calibrations

Cal ID	4F0170Y001S
Software Level	W11_0B3
Serial Number	BK5537N231150363
Part Number	29545537
TCM Date	TBD
HCN / CCN	29 / C11_070
VIN	N/A
This Tool S/N	229731
Last Tool S/N	N/A
Vocational Model	B500
Calibration Group / Active Package	112 / 148
Customized Datalink	No
TID	Level A
Translator Device	Bluetooth USB-Link 2
Communication Protocol	500K
Version	NULN2R32 API=3.0; DLL=2.8.0.4; FW=0.016234
Tool Version Number	Version 2022.2.0 (Build 03/23/2023)

Note: Unless specified otherwise, data measurements are displayed in English

Autodetect Information

Auto Select Configuration	LRTP Required; SEM will run if engine supports
Engine Hardware Status	SEM/LRTP Recognized
SEM Validated	ECM doesn't support SEM
LRTP Validated	ECM supports LRTP
SEM/LRTP Compatibility	Compatible
SEM Enabled Status	Disabled
LRTP Enabled Status	Enabled
SEM Torque Reduction Status	N/A
LRTP Torque Reduction Status	N/A
Unapproved SEM Torque Reducing Device	N/A
Unapproved LRTP Torque Reducing Device	N/A
Max Eng. Torq. Allowed during loss of J1939 Communication	1172.72 ft-lb
SCAAN Run Number	0
Peak Torque from AETC Message	619.55 ft-lb
Engine Torque Rating for Overrating Fault	678.56 ft-lb
Engine Torque Rating for SEM/LRTP Requirement	553.17 ft-lb
Oil Level Autodetected / Status	Yes / Autodetect
Autodetected Engine Starts	1442
Throttle Source / Status	J1939 / Forced
Analog Throttle Autodetect	No
J1939 Throttle Autodetect	No
J1587 Throttle Autodetect	No
Retarder Available / Status	No / Autodetect
Engine Coolant Source / Status	J1939 / Not Forced
Analog Coolant Autodetect	No
J1939 Coolant Autodetect	Yes
J1587 Coolant Autodetect	No
Retarder Pressure Transducer Status	Not Present

Note: Unless specified otherwise, data measurements are displayed in English

Shift Inhibits	Current Active	History
Low Main Pressure	No Inhibit	No Inhibit
Transfer Case Neutral	No Inhibit	No Inhibit
Diagnostic Active	Inhibit	No Inhibit
Auto Neutral Single Input	No Inhibit	No Inhibit
Reverse Enable	No Inhibit	No Inhibit
Reverse Inhibit with Preselect Request	No Inhibit	No Inhibit
Aux Function Range Inhibit	No Inhibit	No Inhibit
PTO Neutral Lockup	No Inhibit	No Inhibit
Engine Speed	No Inhibit	No Inhibit
Shift Inhibit Output Speed	No Inhibit	No Inhibit
Throttle	No Inhibit	Inhibit
IMS Function or Alignment	No Inhibit	No Inhibit
IMS PS4 Disagree	No Inhibit	No Inhibit
No Pull down on shift to range	No Inhibit	No Inhibit
Wheel Spin or Lock	No Inhibit	No Inhibit
Pump Not Engaged	No Inhibit	No Inhibit
Medium Cold Oil	No Inhibit	No Inhibit
Direct Hold	No Inhibit	No Inhibit
Direction Change Enable	No Inhibit	No Inhibit
Automatic Neutral	No Inhibit	No Inhibit
Oil Field Quick to Neutral	No Inhibit	No Inhibit
WT PS1 Pressurized in Cold Mode	No Inhibit	No Inhibit
Brake Based Automatic Neutral	No Inhibit	No Inhibit
Auto Neutral Dual Input	No Inhibit	No Inhibit
Neutral Indicator for PTO	No Inhibit	No Inhibit
Idle Start/Stop Input	No Inhibit	No Inhibit
Reverse Inhibit by Pump Mode	No Inhibit	No Inhibit
2nd Reverse Inhibited	No Inhibit	No Inhibit

Note: Unless specified otherwise, data measurements are displayed in English

Wire/Databus	State	Function Name	State,Latched	Signal Rel,Source,State
Mode	OFF	Input - Secondary Mode	OFF,YES	N/A
101	ON	Input - Auxiliary Function Range Inhibit	ON,NO	N/A
143		Input - PTO Enable	OFF,NO	N/A
102	OFF	Input - Engine Brake Enable and Pre-select Request 1	OFF,NO	OR,J1939,N/A
117		Input - Auto Neutral Single Input	Disable,NO	N/A
122		Input - Kickdown Switch	Disable,NO	N/A
Databus		Input - Reverse Inhibit With Preselect Request	OFF,NO	N/A
162	OFF	Input - Service Brake Status Non-Inverted	OFF,NO	N/A
121	OFF	Input - ABS Active	OFF,NO	N/A
161	OFF	Input - Retarder Enable	OFF,NO	N/A
123	OFF	Input - RELS	OFF,NO	N/A
157	OFF	Input - Engine Brake and Pre-select Request 2	OFF,NO	N/A
142		Input - Auxiliary Hold	Disable,NO	N/A
Databus		Input - Unmanaged Torque	OFF,YES	N/A
Databus		Input - Preselect Request	OFF,NO	N/A
Databus		Input - 2nd Gear Start	OFF,NO	N/A

Wire/Databus	State	Function Name	State,Latched	Signal Rel,Source,State
130		Output - PTO Enable	Disable,NO	N/A
104	OFF	Output - Engine Brake Enable -- Inverted	OFF,NO	N/A
145		Output - Range Indicator	Disable,NO	N/A
105		Output - Output Speed Indicator A	Disable,NO	N/A
124	OFF	Output - Retarder Indicator	OFF,NO	N/A
164		Output - Sump Temp Indicator	OFF,NO	N/A
129	OFF	Output - Check Transmission -- MIL	OFF,YES	N/A
Databus		Output - Range Inhibit Indicator -- RII	OFF,YES	N/A
Databus		Output - Do Not Shift Status	OFF,YES	N/A
165	OFF	Output - Reverse Warning Status	OFF,YES	N/A
141	ON	Output - Neutral Start Status	ON,YES	N/A
150		Output - Strip Selector Range Indication	Disable,NO	N/A
Databus		Output - Requested Torque Reduction	OFF,YES	N/A
Databus		Output - Service Indicator	OFF,YES	N/A

Note: Unless specified otherwise, data measurements are displayed in English

Diagnostic Data

Accelerator Position (%)	0.0
Absolute Throttle Position (%)	0.0
Input Speed (rpm)	0
Turbine Speed (rpm)	0
Output Speed (rpm)	0
Current Gear	Neutral
Gear Commanded	Neutral
Gear Selected	Neutral
Shift Selector Range Selected	N
Shift Selector Range Commanded	N
Previous Gear	Neutral
On-Coming Clutch Pressure (psi)	232.06
Off-Going Clutch Pressure (psi)	0.0
Pressure Switch 1	Exhausted/OFF
Pressure Switch 2	Exhausted/Close
TCC PCS Commanded Pressure (psi)	0.0
Main Mod Solenoid Commanded Pressure (psi)	232.06
PCS 1 Commanded Pressure (psi)	0.0
PCS 2 Commanded Pressure (psi)	0.0
PCS 3 Commanded Pressure (psi)	232.06
PCS 4 Commanded Pressure (psi)	0.0
PCS 5 Commanded Pressure (psi)	0.0
PCS 6 Commanded Pressure (psi)	0.0
Shift Solenoid 1 Status	Off
Shift Solenoid 2 Status	Off
Retarder Requested (%)	N/A
Intended Retarder Torque (%)	N/A
Actual Retarder Torque (%)	N/A
Trans Fluid Temp	82 °F / 28 °C
Engine Coolant Temperature	84 °F / 29 °C
Retarder Temp	N/A
TCC Slip Speed (rpm)	0
TCC State	Off
Next Output Speed For Upshift (rpm)	313
Output Speed Acceleration (rpm/sec)	0
Next Output Speed For Downshift (rpm)	0
Last Output Speed Range Shift (rpm)	0
Cruise Enabled	No
Mode Button Status (via CAN1)	Off
Gear Shift Module Incompatible with Prognostics Features	False
Oil Level Display Code	Sump Temp Lo
Oil Level Deviation (Quarts)	6.0
Ignition Voltage (V)	12.3
Battery Voltage (V)	12.0
Normal Shift Pattern	Off
Cold Shift Pattern	Off
Trans Hot Mode	Off
Engine Run Time (hh:mm:ss)	00:00:00
Number of Current Malfunctions	0
Overall Gear Requested	Neutral
Gear Ratio	8.0
Active Shift Selector	Primary Selector
Active Shift Selector PWM Direction Signal	Unknown
Strip Selector Output Pattern SS-1	N/A
Strip Selector Output Pattern SS-2	N/A
Strip Selector Output Pattern SS-4	N/A
Strip Selector Output Pattern SS-Parity	N/A
Retarder Transducer Pressure (psi)	N/A
Four Wheel Drive Low Active	False
Four Wheel Drive Low Fault	False
Four Wheel Drive Mode Active	False
Engine Torque (ft-lb)	-146.77
Requested Torque Reduction (ft-lb)	0.0
Driver Demand Engine Torque (ft-lb)	35.4
Load-based Shift Scheduling State	Engine-Torque-Based LBSS Active
Shift Schedule Currently Selected by LBSS	Economy Mode
LBSS - Availability of Economy Mode	High
LBSS - Percent Time Spent in Economy Mode (%)	42.35

Note: Unless specified otherwise, data measurements are displayed in English

LBSS - Percent Time Overridden by Secondary Switch (%)	0.00
Percent Time Spent in Super-Economy Mode (%)	49.80
Percent Time Spent in Vehicle Acceleration Limiting (%)	0.00
Overall Vehicle Acceleration Control (VAC) Status	Disabled by Cal
VAC Level of Acceleration Control	Low
TPS Voltage (V)	0.0
Retarder Request Voltage (V)	N/A
Oil Level Sensor Voltage (V)	4.13
Oil Temperature Sensor Resistance (Ω)	2,408.00
Retarder Temperature Sensor Resistance (Ω)	N/A
Engine Coolant Sensor Resistance (Ω)	1,534,500.00
TCM Substrate Temperature	102 °F / 39 °C

Note: Unless specified otherwise, data measurements are displayed in English

Customer Modifiable Constants

Automatic Neutral Engage	
Maximum Output Speed for Neutral Engagement	60
PTO Enable	
Maximum Engine Speed for PTO Engagement	900
Maximum Engine Speed for PTO Operation	4000
Maximum Output Speed for PTO Engagement	250
Maximum Output Speed for PTO Operation	300
Torque Converter Clutch Engagement Speed	900
Engine Brake and Pre-Select Request	
Engine Brake Pre-Select Range	3rd
Engine Brake Pre-Select Option	Alt E-Brk / Retarder
Engine Brake Alternate Schedule Range	6th
Range Indicator	
Selected Ranges	P N N1 N2/NNC N3 N4 NVL
Output Speed Indicator A	
Output Speed to Turn ON	80
Output Speed to Turn OFF	60
Output Speed Indicator B	
Output Speed to Turn ON	80
Output Speed to Turn OFF	60
PTO Overspeed Indicator	
Engine Speed to Turn ON	1650
Engine Speed to Turn OFF	1600
Engine Overspeed Indicator	
Engine Speed to Turn ON	2430
Engine Speed to Turn OFF	2390
Sump/Retarder Temp Indicator	
Flash when Hot Oil Capacity Reduction Active	Disable
Flash when Hot Oil Preselect Active	Disable
Flash when Engine Coolant Capacity Reduction Active	Disable
Flash when Engine Coolant Preselect Active	Disable
Engine Temp to Flash Output - Reduction active	201 °F / 94 °C °F
Engine Temp to Flash Output - Pre-select active	210 °F / 99 °C °F
Engine Temp difference to Flash Output - Hysteresis	36 °F / 2 °C °F
D1 Selection	
Primary Forward Shift Selector Position	1st Range
Secondary Forward Shift Selector Position	1st Range
Override Autodetect	
Override Throttle Source	J1939
Override Engine Coolant Source	Autodetect
Override Oil Level Sensor	Autodetect
Override Retarder Autodetect	Autodetect
Retarder Parameters	
Engine Coolant Temp to Start Retarder Capacity Reduction	N/A °F
Retarder Capacity Reduction Enable for Hot Coolant	N/A
Preselect Shift Points Enable for Hot Coolant	N/A
Engine Coolant Temp to Invoke Retarder Auto Preselect	N/A °F
Retarder Accumulator	Used
Retarder Capacity Level	N/A
Two Speed Axle Enable	
Output Speed for Low Axle Select	100
Special Logic Pattern	
Engine Speed Neutral To Range Inhibit	900
Neutral Indicator for PTO	
Engine Speed for Neutral Indicator for PTO	900
Output Speed for Neutral Indicator for PTO	60
Auto Neutral for Refuse Packer	
Output Speed for Auto Neutral for Refuse Packer	60
Brake Based Automatic Neutral	
Brake Based Automatic Neutral Preselect Range	6th
Preselect Request	
Preselect Request Shift Position (Primary)	4th
Preselect Request Shift Position (Secondary)	4th
Prognostics	
Allison Prognostics Package	Enabled
Prognostic Reset by Service Tool ONLY	No
Oil Life Remaining Offset	100 %
TES Oil Type Reset by Service Tool Only	No

Note: Unless specified otherwise, data measurements are displayed in English

TES Oil Type	TES-295
LBSS	
Load-Based Shift Schedule Feature	Enabled
LBSS Availability of Economy Mode	High
LBSS-Store Schedule at Powerdown	Yes
VAC	
Vehicle Acceleration Control Feature	Not Available
VAC Level of Acceleration Control	Not Available

Note: Unless specified otherwise, data measurements are displayed in English

Trouble Code	Active	Historic	Check Trans	Description
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Note: Unless specified otherwise, data measurements are displayed in English

Failure Records

None

Note: Unless specified otherwise, data measurements are displayed in English

Adaptive Shifts

Garage Shift

D-R Oncoming Clutch Volume	92.00 cc
D-R Minimum Oncoming Clutch Volume	83.00 cc
D-R Oncoming Clutch Pressure	32.60 psi
D-R Oncoming Fill Delay	0.30 Seconds
N-R Oncoming Clutch Volume	87.00 cc
N-R Minimum Oncoming Clutch Volume	78.00 cc
N-R Oncoming Clutch Pressure	34.01 psi
R-N Off-Going Pressure	25.40 psi
N-1 Oncoming Clutch Volume	158.00 cc
N-1 Minimum Oncoming Clutch Volume	147.00 cc
N-1 Oncoming Clutch Pressure	44.78 psi
R-1 Oncoming Clutch Volume	160.00 cc
R-1 Minimum Oncoming Clutch Volume	149.00 cc
R-1 Oncoming Clutch Pressure	45.51 psi
R-1 Oncoming Fill Delay	0.30 Seconds
N-R Adapt - Pattern 0	Converged
N-1 Adapt - Pattern 0	Converged
N-2 Adapt - Pattern 0	Not Converged
D-R Adapt - Pattern 0	Converged
R-1 Adapt - Pattern 0	Converged
R-2 Adapt - Pattern 0	Not Converged

1-2

1-2 Pattern 0 Oncoming Clutch Volume	73.00 cc
1-2 Pattern 0 Oncoming Pressure Region 0	26.22 psi
1-2 Pattern 0 Oncoming Pressure Region 1	48.37 psi
1-2 Pattern 0 Oncoming Pressure Region 2	86.55 psi
1-2 Pattern 0 Offgoing Pressure Region 0	26.85 psi
1-2 Pattern 0 Offgoing Pressure Region 1	26.41 psi
1-2 Pattern 0 Offgoing Pressure Region 2	20.47 psi
1-2 Pattern 1 Oncoming Clutch Volume	71.00 cc
1-2 Pattern 1 Oncoming Pressure Region 0	39.05 psi
1-2 Pattern 1 Oncoming Pressure Region 1	52.45 psi
1-2 Pattern 1 Oncoming Pressure Region 2	74.01 psi
1-2 Pattern 1 Offgoing Pressure Region 0	26.85 psi
1-2 Pattern 1 Offgoing Pressure Region 1	26.41 psi
1-2 Pattern 1 Offgoing Pressure Region 2	20.47 psi
1-2 Adapt - Pattern 0 Region 0	Converged
1-2 Adapt - Pattern 0 Region 1	Converged
1-2 Adapt - Pattern 0 Region 2	Converged
1-2 Adapt - Pattern 1 Region 0	Not Converged
1-2 Adapt - Pattern 1 Region 1	Not Converged
1-2 Adapt - Pattern 1 Region 2	Not Converged
1-2 Adapt - Pattern 2 Region 0	Not Converged
1-2 Adapt - Pattern 2 Region 1	Not Converged
1-2 Adapt - Pattern 2 Region 2	Not Converged

2-1

2-1 Pattern 0 Full Throttle On-Coming Pressure	66.28 psi
2-1 Pattern 0 Part Throttle On-Coming Pressure	71.50 psi
2-1 Pattern 0 Step-Thru On-Coming Pressure	74.40 psi
2-1 Pattern 0 Full Throttle Off-Going Pressure Step	11.00 psi
2-1 Pattern 0 Part Throttle Off-Going Pressure Step	7.23 psi
2-1 Pattern 0 Step-Thru Off-Going Pressure Step	14.14 psi
2-1 Pattern 0 Closed Throttle On-Coming Clutch Volume	211.00 cc
2-1 Pattern 0 Pre-Select On-Coming Clutch Volume	90.00 cc
2-1 Pattern 0 Closed Throttle On-Coming Pressure	50.76 psi
2-1 Pattern 0 Pre-Select On-Coming Pressure	40.61 psi
2-1 Pattern 0 Step-Thru Off-Going Pressure	65.12 psi
2-1 Pattern 1 Full Throttle On-Coming Pressure	67.73 psi
2-1 Pattern 1 Part Throttle On-Coming Pressure	70.63 psi
2-1 Pattern 1 Step-Thru On-Coming Pressure	67.73 psi

Note: Unless specified otherwise, data measurements are displayed in English

2-1 Pattern 1 Full Throttle Off-Going Pressure Step	5.93 psi
2-1 Pattern 1 Part Throttle Off-Going Pressure Step	5.93 psi
2-1 Pattern 1 Step-Thru Off-Going Pressure Step	8.19 psi
2-1 Pattern 1 Closed Throttle On-Coming Clutch Volume	90.00 cc
2-1 Pattern 1 Pre-Select On-Coming Clutch Volume	90.00 cc
2-1 Pattern 1 Closed Throttle On-Coming Pressure	35.97 psi
2-1 Pattern 1 Pre-Select On-Coming Pressure	40.61 psi
2-1 Pattern 1 Step-Thru Off-Going Pressure	67.59 psi
2-1 Adapt - Pattern 0 Full Throttle	Not Converged
2-1 Adapt - Pattern 0 Part Throttle	Not Converged
2-1 Adapt - Pattern 0 Step-Through	Converged
2-1 Adapt - Pattern 0 Closed Throttle	Converged
2-1 Adapt - Pattern 0 Pre-select	Not Converged
2-1 Adapt - Pattern 1 Full Throttle	Not Converged
2-1 Adapt - Pattern 1 Part Throttle	Not Converged
2-1 Adapt - Pattern 1 Step-Through	Not Converged
2-1 Adapt - Pattern 1 Closed Throttle	Not Converged
2-1 Adapt - Pattern 1 Pre-select	Not Converged

2-3

2-3 Pattern 0 Oncoming Clutch Volume	75.00 cc
2-3 Pattern 0 Oncoming Pressure Region 0	32.33 psi
2-3 Pattern 0 Oncoming Pressure Region 1	59.63 psi
2-3 Pattern 0 Oncoming Pressure Region 2	1.81 psi
2-3 Pattern 0 Offgoing Pressure Region 0	33.79 psi
2-3 Pattern 0 Offgoing Pressure Region 1	38.45 psi
2-3 Pattern 0 Offgoing Pressure Region 2	38.82 psi
2-3 Pattern 1 Oncoming Clutch Volume	60.00 cc
2-3 Pattern 1 Oncoming Pressure Region 0	35.50 psi
2-3 Pattern 1 Oncoming Pressure Region 1	54.93 psi
2-3 Pattern 1 Oncoming Pressure Region 2	77.63 psi
2-3 Pattern 1 Offgoing Pressure Region 0	33.79 psi
2-3 Pattern 1 Offgoing Pressure Region 1	38.45 psi
2-3 Pattern 1 Offgoing Pressure Region 2	38.82 psi
2-3 Adapt - Pattern 0 Region 0	Converged
2-3 Adapt - Pattern 0 Region 1	Converged
2-3 Adapt - Pattern 0 Region 2	Not Converged
2-3 Adapt - Pattern 1 Region 0	Not Converged
2-3 Adapt - Pattern 1 Region 1	Not Converged
2-3 Adapt - Pattern 1 Region 2	Not Converged
2-3 Adapt - Pattern 2 Region 0	Not Converged
2-3 Adapt - Pattern 2 Region 1	Not Converged
2-3 Adapt - Pattern 2 Region 2	Not Converged

3-2

3-2 Pattern 0 Full Throttle On-Coming Pressure	45.11 psi
3-2 Pattern 0 Part Throttle On-Coming Pressure	45.11 psi
3-2 Pattern 0 Step-Thru On-Coming Pressure	45.54 psi
3-2 Pattern 0 Full Throttle Off-Going Pressure Step	5.24 psi
3-2 Pattern 0 Part Throttle Off-Going Pressure Step	5.06 psi
3-2 Pattern 0 Step-Thru Off-Going Pressure Step	10.30 psi
3-2 Pattern 0 Closed Throttle On-Coming Clutch Volume	55.00 cc
3-2 Pattern 0 Pre-Select On-Coming Clutch Volume	64.00 cc
3-2 Pattern 0 Closed Throttle On-Coming Pressure	44.83 psi
3-2 Pattern 0 Pre-Select On-Coming Pressure	54.70 psi
3-2 Pattern 0 Step-Thru Off-Going Pressure	54.97 psi
3-2 Pattern 1 Full Throttle On-Coming Pressure	50.04 psi
3-2 Pattern 1 Part Throttle On-Coming Pressure	49.17 psi
3-2 Pattern 1 Step-Thru On-Coming Pressure	48.88 psi
3-2 Pattern 1 Full Throttle Off-Going Pressure Step	12.58 psi
3-2 Pattern 1 Part Throttle Off-Going Pressure Step	15.37 psi
3-2 Pattern 1 Step-Thru Off-Going Pressure Step	14.12 psi
3-2 Pattern 1 Closed Throttle On-Coming Clutch Volume	57.00 cc
3-2 Pattern 1 Pre-Select On-Coming Clutch Volume	56.00 cc
3-2 Pattern 1 Closed Throttle On-Coming Pressure	45.83 psi
3-2 Pattern 1 Pre-Select On-Coming Pressure	50.62 psi
3-2 Pattern 1 Step-Thru Off-Going Pressure	59.45 psi
3-2 Adapt - Pattern 0 Full Throttle	Not Converged

Note: Unless specified otherwise, data measurements are displayed in English

3-2 Adapt - Pattern 0 Part Throttle	Not Converged
3-2 Adapt - Pattern 0 Step-Through	Not Converged
3-2 Adapt - Pattern 0 Closed Throttle	Converged
3-2 Adapt - Pattern 0 Pre-select	Converged
3-2 Adapt - Pattern 1 Full Throttle	Converged
3-2 Adapt - Pattern 1 Part Throttle	Not Converged
3-2 Adapt - Pattern 1 Step-Through	Converged
3-2 Adapt - Pattern 1 Closed Throttle	Not Converged
3-2 Adapt - Pattern 1 Pre-select	Not Converged
3-2 Adapt - Pattern 2 Closed Throttle	Converged

3-4

3-4 Pattern 0 Oncoming Clutch Volume	83.00 cc
3-4 Pattern 0 Oncoming Pressure Region 0	128.90 psi
3-4 Pattern 0 Oncoming Pressure Region 1	141.65 psi
3-4 Pattern 0 Oncoming Pressure Region 2	158.27 psi
3-4 Pattern 0 Offgoing Pressure Region 0	14.98 psi
3-4 Pattern 0 Offgoing Pressure Region 1	17.40 psi
3-4 Pattern 0 Offgoing Pressure Region 2	19.02 psi
3-4 Pattern 1 Oncoming Clutch Volume	67.00 cc
3-4 Pattern 1 Oncoming Pressure Region 0	131.68 psi
3-4 Pattern 1 Oncoming Pressure Region 1	133.89 psi
3-4 Pattern 1 Oncoming Pressure Region 2	159.45 psi
3-4 Pattern 1 Offgoing Pressure Region 0	14.98 psi
3-4 Pattern 1 Offgoing Pressure Region 1	17.40 psi
3-4 Pattern 1 Offgoing Pressure Region 2	19.02 psi
3-4 Adapt - Pattern 0 Region 0	Converged
3-4 Adapt - Pattern 0 Region 1	Converged
3-4 Adapt - Pattern 0 Region 2	Converged
3-4 Adapt - Pattern 1 Region 0	Not Converged
3-4 Adapt - Pattern 1 Region 1	Not Converged
3-4 Adapt - Pattern 1 Region 2	Not Converged
3-4 Adapt - Pattern 2 Region 0	Not Converged
3-4 Adapt - Pattern 2 Region 1	Not Converged
3-4 Adapt - Pattern 2 Region 2	Not Converged

4-3

4-3 Pattern 0 Full Throttle On-Coming Pressure	42.64 psi
4-3 Pattern 0 Part Throttle On-Coming Pressure	42.64 psi
4-3 Pattern 0 Step-Thru On-Coming Pressure	42.64 psi
4-3 Pattern 0 Full Throttle Off-Going Pressure Step	10.15 psi
4-3 Pattern 0 Part Throttle Off-Going Pressure Step	10.30 psi
4-3 Pattern 0 Step-Thru Off-Going Pressure Step	11.35 psi
4-3 Pattern 0 Closed Throttle On-Coming Clutch Volume	92.00 cc
4-3 Pattern 0 Pre-Select On-Coming Clutch Volume	92.00 cc
4-3 Pattern 0 Closed Throttle On-Coming Pressure	41.06 psi
4-3 Pattern 0 Pre-Select On-Coming Pressure	42.24 psi
4-3 Pattern 0 Step-Thru Off-Going Pressure	143.59 psi
4-3 Pattern 1 Full Throttle On-Coming Pressure	52.07 psi
4-3 Pattern 1 Part Throttle On-Coming Pressure	48.88 psi
4-3 Pattern 1 Step-Thru On-Coming Pressure	49.17 psi
4-3 Pattern 1 Full Throttle Off-Going Pressure Step	16.03 psi
4-3 Pattern 1 Part Throttle Off-Going Pressure Step	19.76 psi
4-3 Pattern 1 Step-Thru Off-Going Pressure Step	18.58 psi
4-3 Pattern 1 Closed Throttle On-Coming Clutch Volume	85.00 cc
4-3 Pattern 1 Pre-Select On-Coming Clutch Volume	83.00 cc
4-3 Pattern 1 Closed Throttle On-Coming Pressure	41.34 psi
4-3 Pattern 1 Pre-Select On-Coming Pressure	40.18 psi
4-3 Pattern 1 Step-Thru Off-Going Pressure	144.87 psi
4-3 Adapt - Pattern 0 Full Throttle	Not Converged
4-3 Adapt - Pattern 0 Part Throttle	Not Converged
4-3 Adapt - Pattern 0 Step-Through	Not Converged
4-3 Adapt - Pattern 0 Closed Throttle	Converged
4-3 Adapt - Pattern 0 Pre-select	Converged
4-3 Adapt - Pattern 1 Full Throttle	Converged
4-3 Adapt - Pattern 1 Part Throttle	Converged
4-3 Adapt - Pattern 1 Step-Through	Converged
4-3 Adapt - Pattern 1 Closed Throttle	Not Converged

Note: Unless specified otherwise, data measurements are displayed in English

4-3 Adapt - Pattern 1 Pre-select	Not Converged
4-3 Adapt - Pattern 2 Closed Throttle	Converged

4-5

4-5 Pattern 0 Oncoming Clutch Volume	86.00 cc
4-5 Pattern 0 Oncoming Pressure Region 0	30.44 psi
4-5 Pattern 0 Oncoming Pressure Region 1	49.10 psi
4-5 Pattern 0 Oncoming Pressure Region 2	11.89 psi
4-5 Pattern 0 Offgoing Pressure Region 0	22.06 psi
4-5 Pattern 0 Offgoing Pressure Region 1	22.77 psi
4-5 Pattern 0 Offgoing Pressure Region 2	24.66 psi
4-5 Pattern 1 Oncoming Clutch Volume	76.00 cc
4-5 Pattern 1 Oncoming Pressure Region 0	34.68 psi
4-5 Pattern 1 Oncoming Pressure Region 1	47.26 psi
4-5 Pattern 1 Oncoming Pressure Region 2	61.66 psi
4-5 Pattern 1 Offgoing Pressure Region 0	22.06 psi
4-5 Pattern 1 Offgoing Pressure Region 1	22.77 psi
4-5 Pattern 1 Offgoing Pressure Region 2	24.66 psi
4-5 Adapt - Pattern 0 Region 0	Converged
4-5 Adapt - Pattern 0 Region 1	Converged
4-5 Adapt - Pattern 0 Region 2	Not Converged
4-5 Adapt - Pattern 1 Region 0	Not Converged
4-5 Adapt - Pattern 1 Region 1	Not Converged
4-5 Adapt - Pattern 1 Region 2	Not Converged
4-5 Adapt - Pattern 2 Region 0	Not Converged
4-5 Adapt - Pattern 2 Region 1	Not Converged
4-5 Adapt - Pattern 2 Region 2	Not Converged

5-4

5-4 Pattern 0 Full Throttle On-Coming Pressure	46.70 psi
5-4 Pattern 0 Part Throttle On-Coming Pressure	46.70 psi
5-4 Pattern 0 Step-Thru On-Coming Pressure	47.43 psi
5-4 Pattern 0 Full Throttle Off-Going Pressure Step	3.66 psi
5-4 Pattern 0 Part Throttle Off-Going Pressure Step	3.46 psi
5-4 Pattern 0 Step-Thru Off-Going Pressure Step	4.39 psi
5-4 Pattern 0 Closed Throttle On-Coming Clutch Volume	130.00 cc
5-4 Pattern 0 Pre-Select On-Coming Clutch Volume	159.00 cc
5-4 Pattern 0 Closed Throttle On-Coming Pressure	32.63 psi
5-4 Pattern 0 Pre-Select On-Coming Pressure	34.08 psi
5-4 Pattern 0 Step-Thru Off-Going Pressure	51.34 psi
5-4 Pattern 1 Full Throttle On-Coming Pressure	52.50 psi
5-4 Pattern 1 Part Throttle On-Coming Pressure	51.20 psi
5-4 Pattern 1 Step-Thru On-Coming Pressure	50.47 psi
5-4 Pattern 1 Full Throttle Off-Going Pressure Step	11.29 psi
5-4 Pattern 1 Part Throttle Off-Going Pressure Step	14.69 psi
5-4 Pattern 1 Step-Thru Off-Going Pressure Step	14.16 psi
5-4 Pattern 1 Closed Throttle On-Coming Clutch Volume	130.00 cc
5-4 Pattern 1 Pre-Select On-Coming Clutch Volume	128.00 cc
5-4 Pattern 1 Closed Throttle On-Coming Pressure	41.77 psi
5-4 Pattern 1 Pre-Select On-Coming Pressure	38.44 psi
5-4 Pattern 1 Step-Thru Off-Going Pressure	54.23 psi
5-4 Adapt - Pattern 0 Full Throttle	Not Converged
5-4 Adapt - Pattern 0 Part Throttle	Not Converged
5-4 Adapt - Pattern 0 Step-Through	Not Converged
5-4 Adapt - Pattern 0 Closed Throttle	Converged
5-4 Adapt - Pattern 0 Pre-select	Converged
5-4 Adapt - Pattern 1 Full Throttle	Converged
5-4 Adapt - Pattern 1 Part Throttle	Converged
5-4 Adapt - Pattern 1 Step-Through	Converged
5-4 Adapt - Pattern 1 Closed Throttle	Not Converged
5-4 Adapt - Pattern 1 Pre-select	Not Converged
5-4 Adapt - Pattern 2 Closed Throttle	Not Converged

5-6

5-6 Pattern 0 Oncoming Clutch Volume	55.00 cc
5-6 Pattern 0 Oncoming Pressure Region 0	35.48 psi

Note: Unless specified otherwise, data measurements are displayed in English

5-6 Pattern 0 Oncoming Pressure Region 1	43.71 psi
5-6 Pattern 0 Oncoming Pressure Region 2	54.66 psi
5-6 Pattern 0 Offgoing Pressure Region 0	25.27 psi
5-6 Pattern 0 Offgoing Pressure Region 1	25.64 psi
5-6 Pattern 0 Offgoing Pressure Region 2	27.99 psi
5-6 Pattern 1 Oncoming Clutch Volume	59.00 cc
5-6 Pattern 1 Oncoming Pressure Region 0	37.82 psi
5-6 Pattern 1 Oncoming Pressure Region 1	48.77 psi
5-6 Pattern 1 Oncoming Pressure Region 2	56.64 psi
5-6 Pattern 1 Offgoing Pressure Region 0	25.27 psi
5-6 Pattern 1 Offgoing Pressure Region 1	25.64 psi
5-6 Pattern 1 Offgoing Pressure Region 2	27.99 psi
5-6 Adapt - Pattern 0 Region 0	Converged
5-6 Adapt - Pattern 0 Region 1	Converged
5-6 Adapt - Pattern 0 Region 2	Converged
5-6 Adapt - Pattern 1 Region 0	Not Converged
5-6 Adapt - Pattern 1 Region 1	Not Converged
5-6 Adapt - Pattern 1 Region 2	Not Converged
5-6 Adapt - Pattern 2 Region 0	Not Converged
5-6 Adapt - Pattern 2 Region 1	Not Converged
5-6 Adapt - Pattern 2 Region 2	Not Converged

6-5

6-5 Pattern 0 Full Throttle On-Coming Pressure	50.04 psi
6-5 Pattern 0 Part Throttle On-Coming Pressure	44.24 psi
6-5 Pattern 0 Step-Thru On-Coming Pressure	44.53 psi
6-5 Pattern 0 Full Throttle Off-Going Pressure Step	8.01 psi
6-5 Pattern 0 Part Throttle Off-Going Pressure Step	7.09 psi
6-5 Pattern 0 Step-Thru Off-Going Pressure Step	9.81 psi
6-5 Pattern 0 Closed Throttle On-Coming Clutch Volume	90.00 cc
6-5 Pattern 0 Pre-Select On-Coming Clutch Volume	97.00 cc
6-5 Pattern 0 Closed Throttle On-Coming Pressure	30.22 psi
6-5 Pattern 0 Pre-Select On-Coming Pressure	29.88 psi
6-5 Pattern 0 Step-Thru Off-Going Pressure	57.14 psi
6-5 Pattern 1 Full Throttle On-Coming Pressure	50.62 psi
6-5 Pattern 1 Part Throttle On-Coming Pressure	53.08 psi
6-5 Pattern 1 Step-Thru On-Coming Pressure	56.42 psi
6-5 Pattern 1 Full Throttle Off-Going Pressure Step	8.74 psi
6-5 Pattern 1 Part Throttle Off-Going Pressure Step	11.37 psi
6-5 Pattern 1 Step-Thru Off-Going Pressure Step	14.45 psi
6-5 Pattern 1 Closed Throttle On-Coming Clutch Volume	88.00 cc
6-5 Pattern 1 Pre-Select On-Coming Clutch Volume	89.00 cc
6-5 Pattern 1 Closed Throttle On-Coming Pressure	40.18 psi
6-5 Pattern 1 Pre-Select On-Coming Pressure	36.98 psi
6-5 Pattern 1 Step-Thru Off-Going Pressure	58.65 psi
6-5 Adapt - Pattern 0 Full Throttle	Not Converged
6-5 Adapt - Pattern 0 Part Throttle	Not Converged
6-5 Adapt - Pattern 0 Step-Through	Not Converged
6-5 Adapt - Pattern 0 Closed Throttle	Converged
6-5 Adapt - Pattern 0 Pre-select	Converged
6-5 Adapt - Pattern 1 Full Throttle	Converged
6-5 Adapt - Pattern 1 Part Throttle	Converged
6-5 Adapt - Pattern 1 Step-Through	Converged
6-5 Adapt - Pattern 1 Closed Throttle	Not Converged
6-5 Adapt - Pattern 1 Pre-select	Not Converged
6-5 Adapt - Pattern 2 Closed Throttle	Converged

Note: Unless specified otherwise, data measurements are displayed in English

Code	Description	Since Clear	Since Powerup
P063E	Auto Configuration Throttle Input Not Present	Test Failed/Not Performed	Test Failed/Not Performed
P0122	Pedal Position Sensor Low Voltage	Test Failed/Not Performed	Test Failed/Not Performed
P0123	Pedal Position Sensor High Voltage	Test Failed/Not Performed	Test Failed/Not Performed
P1891	Throttle Position Sensor PWM Signal Low Input	Test Failed/Not Performed	Test Failed/Not Performed
P1892	Throttle Position Sensor PWM Signal High Input	Test Failed/Not Performed	Test Failed/Not Performed
P0218	Transmission Over Temperature Condition	Test Passed	Test Failed/Not Performed
P0711	Transmission Fluid Temperature Sensor Circuit Performance	Test Failed/Not Performed	Test Failed/Not Performed
P0712	Transmission Fluid Temperature Sensor Circuit Low Input	Test Passed	Test Failed/Not Performed
P0713	Transmission Fluid Temperature Sensor Circuit High Input	Test Passed	Test Failed/Not Performed
P0634	TCM Internal Temperature Too High	Test Passed	Test Failed/Not Performed
P2740	Retarder Oil Temperature Hot	Test Failed/Not Performed	Test Failed/Not Performed
P2742	Retarder Oil Temperature Sensor Circuit - Low Input	Test Failed/Not Performed	Test Failed/Not Performed
P2743	Retarder Oil Temperature Sensor Circuit - High Input	Test Failed/Not Performed	Test Failed/Not Performed
P070C	Transmission Fluid Level Sensor Circuit Low Input	Test Passed	Test Failed/Not Performed
P070D	Transmission Fluid Level Sensor Circuit High Input	Test Passed	Test Failed/Not Performed
P2184	Engine Coolant Temperature Sensor Circuit Low	Test Failed/Not Performed	Test Failed/Not Performed
P2185	Engine Coolant Temperature Sensor Circuit High	Test Failed/Not Performed	Test Failed/Not Performed
P063F	Auto Configuration Engine Coolant Temp Input not Present	Test Failed/Not Performed	Test Failed/Not Performed
P0562	System Voltage Low	Test Passed	Test Failed/Not Performed
P0880	TCM Power Input Signal	Test Passed	Test Passed
P0881	TCM Power Input Signal Performance (Battery Voltage)	Test Passed	Test Failed/Not Performed
P0882	TCM Power Input Signal Low (Battery Voltage)	Test Passed	Test Failed/Not Performed
P0883	TCM Power Input Signal High (Battery Voltage)	Test Passed	Test Failed/Not Performed
P0751	Shift Solenoid 1 Valve Performance - Stuck Off	Test Failed/Not Performed	Test Failed/Not Performed
P0752	Shift Solenoid 1 Valve Performance - Stuck On	Test Passed	Test Failed/Not Performed
P0973	Shift Solenoid 1 Control Circuit Low	Test Passed	Test Failed/Not Performed
P0974	Shift Solenoid 1 Control Circuit High	Test Passed	Test Failed/Not Performed
P0976	Shift Solenoid 2 Control Circuit Low	Test Failed/Not Performed	Test Failed/Not Performed
P0975	Shift Solenoid 2 Control Circuit Open	Test Failed/Not Performed	Test Failed/Not Performed
P0977	Shift Solenoid 2 Control Circuit High	Test Failed/Not Performed	Test Failed/Not Performed
P0960	Main Pressure Modulation Solenoid Control Circuit Open	Test Passed	Test Failed/Not Performed
P0961	Main Pressure Modulation Solenoid System Performance	Test Passed	Test Failed/Not Performed
P0962	Main Pressure Modulation Solenoid Control Circuit Low	Test Passed	Test Failed/Not Performed
P0963	Main Pressure Modulation Solenoid Control Circuit High	Test Passed	Test Failed/Not Performed
P2723	Pressure Control Solenoid 1 Controlled Clutch Stuck Off	Test Passed	Test Failed/Not Performed
P2724	Pressure Control Solenoid 1 Controlled Clutch Stuck On	Test Passed	Test Failed/Not Performed
P2727	Pressure Control (PC) Solenoid 1 System Open	Test Passed	Test Failed/Not Performed
P2729	Pressure Control (PC) Solenoid 1 Control Circuit Low	Test Passed	Test Failed/Not Performed
P2730	Pressure Control (PC) Solenoid 1 Control Circuit High	Test Passed	Test Failed/Not Performed
P0776	Pressure Control Solenoid 2 Controlled Clutch Stuck Off	Test Passed	Test Failed/Not Performed
P0777	Pressure Control Solenoid 2 Controlled Clutch Stuck On	Test Passed	Test Failed/Not Performed
P0964	Pressure Control (PC) Solenoid 2 Control Circuit Open	Test Passed	Test Failed/Not Performed
P0966	Pressure Control (PC) Solenoid 2 Control Circuit Low	Test Passed	Test Failed/Not Performed
P0967	Pressure Control (PC) Solenoid 2 Control Circuit High	Test Passed	Test Failed/Not Performed
P0796	Pressure Control Solenoid 3 Controlled Clutch Stuck Off	Test Passed	Test Failed/Not Performed
P0797	Pressure Control Solenoid 3 Controlled Clutch Stuck On	Test Passed	Test Failed/Not Performed
P0968	Pressure Control (PC) Solenoid 3 Control Circuit Open	Test Passed	Test Failed/Not Performed
P0970	Pressure Control (PC) Solenoid 3 Control Circuit Low	Test Passed	Test Failed/Not Performed
P0971	Pressure Control (PC) Solenoid 3 Control Circuit High	Test Passed	Test Failed/Not Performed
P2714	Pressure Control Solenoid 4 Controlled Clutch Stuck Off	Test Passed	Test Failed/Not Performed
P2715	Pressure Control Solenoid 4 Controlled Clutch Stuck On	Test Passed	Test Failed/Not Performed
P2718	Pressure Control (PC) Solenoid 4 System Open	Test Passed	Test Failed/Not Performed
P2720	Pressure Control (PC) Solenoid 4 Control Circuit Low	Test Passed	Test Failed/Not Performed
P2721	Pressure Control (PC) Solenoid 4 Control Circuit High	Test Passed	Test Failed/Not Performed
P2736	Pressure Control (PC) Solenoid 5 System Open	Test Failed/Not Performed	Test Failed/Not Performed
P2738	Pressure Control (PC) Solenoid 5 Control Circuit Low	Test Failed/Not Performed	Test Failed/Not Performed
P2739	Pressure Control (PC) Solenoid 5 Control Circuit High	Test Failed/Not Performed	Test Failed/Not Performed
P0741	Torque Converter Clutch System Stuck Off	Test Passed	Test Failed/Not Performed
P2761	TCC PCS Control Circuit Open	Test Passed	Test Failed/Not Performed
P2763	TCC PCS Control Circuit High	Test Passed	Test Failed/Not Performed
P2764	TCC PCS Control Circuit Low	Test Passed	Test Failed/Not Performed
P2808	Pressure Control Solenoid 6 Controlled Clutch Stuck Off	Test Failed/Not Performed	Test Failed/Not Performed
P2809	Pressure Control Solenoid 6 Controlled Clutch Stuck On	Test Failed/Not Performed	Test Failed/Not Performed
P2812	Pressure Control (PC) Solenoid 6 System Open	Test Failed/Not Performed	Test Failed/Not Performed
P2814	Pressure Control (PC) Solenoid 6 Control Circuit Low	Test Failed/Not Performed	Test Failed/Not Performed
P2815	Pressure Control (PC) Solenoid 6 Control Circuit High	Test Failed/Not Performed	Test Failed/Not Performed
P0659	Actuator Supply Voltage 1 High (HSD 1 batt)	Test Passed	Test Passed
P0658	Actuator Supply Voltage 1 Low (HSD 1 gnd)	Test Passed	Test Failed/Not Performed

Note: Unless specified otherwise, data measurements are displayed in English

P2671	Actuator Supply Voltage 2 High (HSD 2 batt)	Test Passed	Test Passed
P2670	Actuator Supply Voltage 2 Low (HSD 2 gnd)	Test Passed	Test Failed/Not Performed
P2686	Actuator Supply Voltage 3 High (HSD 3 batt)	Test Passed	Test Passed
P2685	Actuator Supply Voltage 3 Low (HSD 3 gnd)	Test Passed	Test Failed/Not Performed
P0708	Transmission Range Sensor Circuit High Input	Test Failed/Not Performed	Test Failed/Not Performed
P0716	Turbine Speed Sensor Circuit Performance	Test Passed	Test Failed/Not Performed
P0717	Turbine Speed Sensor Circuit No Signal	Test Passed	Test Failed/Not Performed
P0721	Output Speed Sensor Circuit Performance	Test Passed	Test Failed/Not Performed
P0722	Output Speed Sensor Circuit No Signal	Test Passed	Test Failed/Not Performed
P0726	Engine Speed Input Circuit Performance	Test Passed	Test Failed/Not Performed
P0727	Engine Speed Input Circuit No Signal	Test Passed	Test Failed/Not Performed
P0736	Incorrect Reverse Ratio	Test Passed	Test Failed/Not Performed
P1739	Incorrect Low Gear Ratio	Test Failed/Not Performed	Test Failed/Not Performed
P0731	Incorrect 1st Gear Ratio	Test Passed	Test Failed/Not Performed
P0732	Incorrect 2nd Gear Ratio	Test Passed	Test Failed/Not Performed
P0733	Incorrect 3rd Gear Ratio	Test Passed	Test Failed/Not Performed
P0734	Incorrect 4th Gear Ratio	Test Passed	Test Failed/Not Performed
P0735	Incorrect 5th Gear Ratio	Test Passed	Test Failed/Not Performed
P0729	Incorrect 6th Gear Ratio	Test Passed	Test Failed/Not Performed
P0842	Transmission Pressure Switch 1 (PS1) Circuit Low	Test Passed	Test Failed/Not Performed
P0843	Transmission Pressure Switch 1 (PS1) Circuit High	Test Passed	Test Failed/Not Performed
P0847	Transmission Pressure Switch 2 (PS2) Circuit Low	Test Passed	Test Failed/Not Performed
P0848	Transmission Pressure Switch 2 (PS2) Circuit High	Test Passed	Test Failed/Not Performed
P0989	Retarder Pressure Sensor Failed Low	Test Failed/Not Performed	Test Failed/Not Performed
P0990	Retarder Pressure Sensor Failed High	Test Failed/Not Performed	Test Failed/Not Performed
U1218	Please call 1-800-252-5283 for assistance.	Test Failed/Not Performed	Test Failed/Not Performed
C1312	Retarder Request Sensor Failed Low	Test Failed/Not Performed	Test Failed/Not Performed
C1313	Retarder Request Sensor Failed High	Test Failed/Not Performed	Test Failed/Not Performed
U1215	Please call 1-800-252-5283 for assistance.	Test Failed/Not Performed	Test Failed/Not Performed
P2637	Torque Management Feedback Signal (SEM)	Test Failed/Not Performed	Test Failed/Not Performed
P2641	Torque Management Feedback Signal (LRTP)	Test Passed	Test Failed/Not Performed
P0897	Transmission Fluid Deteriorated	Test Passed	Test Passed
P2789	Clutch Adaptive Learning at Limit	Test Passed	Test Passed
U0010	CAN Bus Reset Counter Overrun (CAN1/J1939)	Test Passed	Test Failed/Not Performed
U0115	Lost Communication With ECM/PCM B (CAN1/J1939)	Test Passed	Test Failed/Not Performed
P0614	Torque Control Data Mismatch ECM/TCM	Test Passed	Test Failed/Not Performed
U0100	Lost Communication with ECM/PCM A (CAN2/GMLAN or J1587)	Test Passed	Test Failed/Not Performed
U0103	Lost Communication with Gear Shift Module 1	Test Passed	Test Failed/Not Performed
U0404	Invalid Data Received from Gear Shift Control Module 1	Test Passed	Test Failed/Not Performed
U0291	Lost Communication with Gear Shift Module 2	Test Failed/Not Performed	Test Failed/Not Performed
U0592	Invalid Data Received from Gear Shift Control Module 2	Test Failed/Not Performed	Test Failed/Not Performed
P2793	Gear Shift Direction Circuit	Test Passed	Test Failed/Not Performed
P0604	TCM Processor Memory (RAM)	Test Passed	Test Passed
U0304	Incompatible Gear Shift Module 1 (Shift Selector) ID	Test Passed	Test Failed/Not Performed
U0333	Incompatible Gear Shift Module 2 (Shift Selector) ID	Test Failed/Not Performed	Test Failed/Not Performed
P0610	TCM Vehicle Options Error	Test Passed	Test Failed/Not Performed
P0702	Transmission Control System Electrical	Test Passed	Test Failed/Not Performed
P0703	Brake Switch Circuit	Test Passed	Test Failed/Not Performed
P278A	Kick-Down Switch Circuit	Test Failed/Not Performed	Test Failed/Not Performed
P0894	Transmission Component Slipping	Test Failed/Not Performed	Test Failed/Not Performed
P071D	General Purpose Input Fault	Test Failed/Not Performed	Test Failed/Not Performed
P071A	RELS Input Failed On	Test Passed	Test Failed/Not Performed
P2772	Four Wheel Drive Low Switch Circuit Performance	Test Failed/Not Performed	Test Failed/Not Performed
P088A	Transmission Fluid Filter Deteriorated	Test Passed	Test Failed/Not Performed
P088B	Transmission Fluid Filter Very Deteriorated	Test Passed	Test Failed/Not Performed
P0657	Actuator Supply Voltage 1 Open (HSD 1 open)	Test Passed	Test Failed/Not Performed
P2669	Actuator Supply Voltage 2 Open (HSD 2 open)	Test Passed	Test Failed/Not Performed
P2684	Actuator Supply Voltage 3 Open (HSD 3 open)	Test Passed	Test Failed/Not Performed

Note: Unless specified otherwise, data measurements are displayed in English

Prognostics Information

GENERAL INFO

Service Indicator	Off
Source of Activation	None

TRANSMISSION OIL LIFE INFO

Oil Remaining Life	52 %
Current Oil Life Revs Limit	1449M
Current Oil Life Hours Limit	9834
Current Oil Life Miles Limit	N/A

OIL MONITOR RESETTING HISTORY	Revs	Revs Limit	Hours	Hours Limit	Miles	Miles Limit
Most Recent Change	1796M	1437M	30136	9801	N/A	N/A

TES OIL TYPE SELECTION

TES Oil Type Selected	TES-295

SELECTED TES OIL TYPE HISTORY	TES Oil Type Selected	Revs	Hours	Miles
Most Recent Change	Undetermined	-	-	N/A

TRANSMISSION HEALTH INFO

Transmission Health Indicator	Percent Clutch Life Remaining OK

EXPIRED CLUTCH HISTORY	Expired Clutch	Revs	Hours	Miles at Most Recent THM Reset
Most Recent Change	C5	1789M	30008	N/A

TRANSMISSION FILTER LIFE INFO

Filter Monitor Expired	No
Current Drive Cycle Plug Filter Hours Timer	0.00
Cumulative Drive Cycle Plug Filter Hours Timer	0.00

*** M = Millions

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Data Bus Statistics

CAN Error Frames / Sec	0
Total CAN Error Frames	0

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• TechTeam@bendix.com

Company: _____ **Location:** _____

Technician: _____

Technician Notes:

VIN	2PCG33495EC735508
Vehicle Make	Prevost
Model	X3 Coach (Passenger & Co
Series	
Model Year	2014

Vehicle Components

Component	Description	Supplier Part Number	Software Version	Diagnostic Network	Active Faults
Brakes	Bendix EC-60 Advanced ABS		BB41062 BB41065	J1939 (High)/ J1587 (Low)	3
Headway Controller	Bendix Wingman® FLR21™ Radar Sensor		BX161502	J1939 (High)/ 15765 (CAN)	0
Engine	Volvo D13		23036505 23114777 23114784	J1939 (High)/ J1587 (Low)	4
Transmission	Allison 3000/4000 4th Gen		W11_0B3 4F0170Y001S 0, W11 0B3	J1939 (High)	0
Instrument Cluster	Volvo Information Display		23971213 21728608 23600222	J1939 (High)/ J1587 (Low)	0
Engine - Vehicle Mgt System	Volvo Link		21975723 21385190 21385191	J1939 (High)/ J1587 (Low)	0
Vehicle ECU	Volvo Vehicle ECU		22135098 22049875 22049887	J1939 (High)/ J1587 (Low)	0

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Vehicle Key Data Points

Description	Parameter Value
Total Engine Hours	1,557.80
Brake Secondary Tank Pressure	116.60 psi
Battery Voltage	25.10 volts
Malfunction Indicator Lamp	On
Amber Warning Lamp	On
Parking Brake Switch	On

Description	Parameter Value
Brake Primary Tank Pressure	116.60 psi
ABS Battery Voltage	12.10 volts
Road Speed	0.00 mph
Red Stop Lamp	Off
Protect Lamp	Off
Odometer	1,220,554.20 mi

Vehicle Issues

9 Active Fault(s) Present
Consumable Fluid(s) Low

Vehicle Identification Numbers

Component	VIN	Protocol Description
D13	2PCG33495EC735508	J1939 (High)
Link	PREVX735508	J1587 (Low)
Link	PREVX735508	J1939 (High)
Vehicle Logic Control Unit / Vehicle Management System #3	00145508A06	J1587 (Low)
Vehicle ECU	PREVX735508	J1587 (Low)
Information Display	PREVX735508	J1587 (Low)
Bendix EC-60 Advanced ABS	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ	J1587 (Low)
Bendix Wingman® FLR21™ Radar Sensor	0.00	15765 (CAN)

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Faults

Status	Component	Description	Lookup Code	FMI	Count
Active	D13	Aftertreatment 1 Intake NOx - Bad intelligent device or component	SPN 3216	12	1
Active	D13	Aftertreatment 1 Intake NOx - Current below normal or open circuit	SPN 3216	5	1
Active	D13	Aftertreatment 1 Intake NOx - Voltage above normal or shorted to high source	SPN 3216	3	126
Active	D13	Aftertreatment 1 Intake NOx - Out of calibration	SPN 3216	13	3
Active	Vehicle Logic Control Unit / Vehicle Management System #3	SAE - Interior Lamps Output - Voltage below normal or shorted to low source	SID 30	4	1
Active	Vehicle Logic Control Unit / Vehicle Management System #3	SAE - Reserved for future assignment by SAE - Data erratic, intermittent or incorrect	SID 55	2	1
Inactive	Link	SAE J1708/J1587 data link - Faulty device or component	SID 250	12	11
Inactive	Information Display	SAE - Service Brake Circuit 1 Air Pressure - Data valid but below normal operational range - Most severe level	SPN 1087	1	29
Inactive	Information Display	SAE - Service Brake Circuit 2 Air Pressure - Data valid but below normal operational range - Most severe level	SPN 1088	1	32
Active	EC-60 Advanced ABS	Steering Angle Sensor - SAS Signal Out of Range (SPN 1807 FMI 2)	21-4	N/A	1
Active	EC-60 Advanced ABS	Steering Angle Sensor - SAS Plausibility Check (SPN 1807 FMI 2)	21-10	N/A	1
Inactive	EC-60 Advanced ABS	J1939 Serial Communication: J1939 Engine Communications (SPN 639 FMI 2)	11-3	N/A	1
Active	EC-60 Advanced ABS	Steering Angle Sensor - SAS Gradient Error (SPN 1807 FMI 2)	21-7	N/A	1
Inactive	Wingman® FLR21™ Radar Sensor	J1939: Engine controller signal error - EEC2 Accelerator Pedal Position (SPN 91 FMI 19)	149	N/A	1

ESP Counters

Component	Event	Counter

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Component	Event	Counter
EC-60 Advanced ABS	RSP Level 1	6656
EC-60 Advanced ABS	RSP Level 2	0
EC-60 Advanced ABS	RSP Level 3	256
EC-60 Advanced ABS	RSP Level 4	256
EC-60 Advanced ABS	RSP Level 5	0
EC-60 Advanced ABS	Yaw Control Over Steer 1	48640
EC-60 Advanced ABS	Yaw Control Over Steer 2	12800
EC-60 Advanced ABS	Yaw Control Over Steer 3	1536
EC-60 Advanced ABS	Yaw Control Under Steer 1	23810
EC-60 Advanced ABS	Yaw Control Under Steer 2	257

Event History

Count	Power Up Time	Vehicle Velocity	Event Stamp	Description	Latitude/ Longitude	Date/ Time
DTC Events EC-60 Advanced ABS						
1	> 1 h	0 mph	1557.7 engine hours	Miscelleneous- ATC Disabled to prevent brake fade		
1	> 1 h	26 mph	1557.7 engine hours	Steering Angle Sensor - SAS Gradient Error		
1	15 m - 1 h	0 mph	1526.1 engine hours	J1939 Serial Communication: J1939 Engine Communications		
1	10 s - 15 m	9 mph	1414.9 engine hours	Steering Angle Sensor - SAS Plausibility Check		
1	10 s - 15 m	0 mph	1414.5 engine hours	Steering Angle Sensor - SAS Signal Out of Range		
1	< 10 s	0 mph	46 power cycles	All faults cleared by diagnostic tool		
1	10 s - 15 m	0 mph	1406.1 engine hours	J1939 Serial Communication: J1939 Engine Communications		
1	10 s - 15 m	1 mph	1399.7 engine hours	Steer Axle Left WSS: Output Low at drive off		
1	10 s - 15 m	0 mph	1399.7 engine hours	Steer Axle Right WSS: Output low at drive off		
1	10 s - 15 m	7 mph	1363.7 engine hours	Drive away test all clear		

1	< 10 s	0 mph	1363.7 engine hours	J1939 Serial Communication: J1939 Engine Communications		
1	15 m - 1 h	9 mph	1212.9 engine hours	Drive away test all clear		
1	> 1 h	76 mph	1210.1 engine hours	Additional Axle Left WSS: Wheel End		
1	> 1 h	77 mph	960.1 engine hours	Additional Axle Left WSS: Wheel End		
25	< 10 s	0 mph	105 power cycles	All faults cleared by diagnostic tool		
1	< 10 s	0 mph	107 power cycles	All faults cleared by diagnostic tool		
1	10 s - 15 m	0 mph	677.7 engine hours	J1939 Serial Communication: J1939 Engine Communications		
8	< 10 s	0 mph	1 power cycles	All faults cleared by diagnostic tool		
1	< 10 s	0 mph	4 power cycles	All faults cleared by diagnostic tool		
1	10 s - 15 m	0 mph	677.3 engine hours	J1939 Serial Communication: J1939 Engine Communications		
3	< 10 s	0 mph	2 power cycles	All faults cleared by diagnostic tool		
1	< 10 s	0 mph	11 power cycles	All faults cleared by diagnostic tool		
Info Events						
EC-60 Advanced ABS						
1	10 s - 15 m	0 mph	1557.8 engine hours	EH login to write		
1	10 s - 15 m	0 mph	1557.8 engine hours	ECU placed in diagnostic mode		
1	> 1 h	1 mph	1478.6 engine hours	Trailer ABS Faulted		
1	10 s - 15 m	0 mph	1413.8 engine hours	EH login to write		
1	10 s - 15 m	0 mph	1413.8 engine hours	ECU placed in diagnostic mode		
1	> 1 h	0 mph	1402.2 engine hours	EH login to write		
1	> 1 h	0 mph	1402.2 engine hours	ECU placed in diagnostic mode		
1	10 s - 15 m	5 mph	1362.6 engine hours	Wheel speed sensor has large air gap		

1	> 1 h	26 mph	1333.0 engine hours	RSP Intervention		
1	> 1 h	61 mph	905.4 engine hours	RSP Intervention		
1	10 s - 15 m	4 mph	493.8 engine hours	Wheel speed sensor has large air gap		
1	10 s - 15 m	0 mph	155.0 engine hours	EH login to write		
1	10 s - 15 m	0 mph	155.0 engine hours	ECU placed in diagnostic mode		
1	10 s - 15 m	0 mph	155.0 engine hours	EH login to write		
1	10 s - 15 m	0 mph	155.0 engine hours	ECU placed in diagnostic mode		
1	10 s - 15 m	0 mph	155.0 engine hours	EH login to write		
1	10 s - 15 m	0 mph	155.0 engine hours	ECU placed in diagnostic mode		
1	10 s - 15 m	0 mph	155.0 engine hours	EH login to write		
1	10 s - 15 m	0 mph	155.0 engine hours	ECU placed in diagnostic mode		
1	10 s - 15 m	0 mph	155.0 engine hours	EH login to write		
1	10 s - 15 m	0 mph	155.0 engine hours	ECU placed in diagnostic mode		
Wingman® FLR21™ Radar Sensor						
8	50,443.8 sec	66 mph	7/10/2023 4:49:19 PM 1,523.3 engine hours	XBR Event		
1	10,443.3 sec	66 mph	3/3/2023 9:49:01 PM 400.2 engine hours	XBR Event		
1	13,459.6 sec	68 mph	3/12/2022 6:31:43 AM 32,136.8 engine hours	RADAR Blind		

25	32,207.4 sec	55 mph	2/21/2022 1:13:20 PM 31,981.3 engine hours	XBR Event		
1	6,346.6 sec	50 mph	4/16/2021 11:15:21 AM 28,784.6 engine hours	XBR Event		
1	2.8 sec	0 mph	N/A	DTCs Cleared		
1	18.9 sec	0 mph	N/A	UDS Parameter Written		
1	17.7 sec	0 mph	N/A	UDS Parameter Written		
1	16.0 sec	0 mph	N/A	Operational Mode Learned		
1	15.2 sec	0 mph	N/A	UDS Parameter Written		
1	6.1 sec	0 mph	N/A	UDS Parameter Written		
1	1.7 sec	0 mph	N/A	Firmware Download		
1	3.3 sec	0 mph	N/A	UDS Parameter Written		
1	3.2 sec	0 mph	N/A	UDS Parameter Written		
1	3.1 sec	0 mph	N/A	UDS Parameter Written		
1	3.0 sec	0 mph	N/A	UDS Parameter Written		
1	2.9 sec	0 mph	N/A	UDS Parameter Written		
1	2.8 sec	0 mph	N/A	UDS Parameter Written		

Component Information

Description	Parameter Value	Description	Parameter Value
Bendix EC-60 Advanced ABS			
Software Version	BB41062	OEM Part Number	K038368
Vendor ID	BNDWS*EC60-adv*	Bendix Part Number	0486107206
Serial Number	5Q26121503	Front Axle Tire Circumference	487.82 revolutions/mile
Rear Axle Tire Circumference	487.82 revolutions/mile	Additional Axle Tire Circumference	487.82 revolutions/mile
Additional Axle Driven	Not Driven	Brake lamp switch configuration	Not used for BLS
VDC Brake Light Request via IO3	disabled	ESP enable	enabled
Electronic Brake Controller	enabled	Wheel Speed Information	enabled
Cruise Control / Vehicle Speed	disabled	High Resolution Wheel Speed	disabled
HSA	disabled	ATC Offroad Traction Control Lamp Blink Rate	ON solid (no blinking)

Description	Parameter Value
Trailer Modulator	disabled
Global Parameter Request	enabled
Diagnostic Data Request (faults)	enabled
ATC Control Status	enabled
ABS Control Status	enabled
Global Parameter Request	disabled
Diagnostic Data Request (faults)	disabled
ATC Control Status	disabled
ABS Control Status	disabled
FS2 is ESP off road switch	false
FS2 is off road ABS switch	false
FS1 is EPS off switch	false
FS1 is off road ABS switch	false
Engine Control Off Offroad	Off Road
CONF_ATC_CNST_SLIP_EC_B1_EE	96.00
CONF_ATC_OFFROAD_SLIP_EC_B1	102.00
CONF_ATC_SLFACT_EC_EE	64.00
ENABLE_ENGSPD_ADAPT_EE	1.00
DELAY_P_EST_TCV_DR_EE	5.00
KB_AB_3EE	21.00
KB_AUF_3EE	14.00
Retarder relay	No retarder relay
Steer axle valve configuration	2 valves on steer axle
Additional axle valve configuration	1 valve on additional axle
ABS off during diff. lock.	disabled
ATC Engine Control	enabled
Learned Drive Axle Tire Circumference	487.82 revolutions/mile

Description	Parameter Value
ATC Disable Status	disabled
ABS Control Status (Trailer)	enabled
Battery Potential (Voltage)	enabled
Road Speed	enabled
ATC Disable Status	disabled
ABS Control Status (Trailer)	disabled
Battery Potential (Voltage)	disabled
Road Speed	disabled
BLS is ASR off road switch	false
FS2 is off road ASR switch	true
BLS is off road ABS switch	false
FS1 is off road ASR switch	false
Brake Control Off Offroad	Off Road
CONF_ATC_ADAPT_SLIP_EC_B13_EE	26.00
CONF_ATC_OFFROAD_SLIP_EC_B0	1.00
CONF_ATC_PROZ_SLIP_EC_EE	8.00
ENABLE_ADAPTSLIP_EC_EE	1.00
DELAY_P_EST_TCV_AA_EE	5.00
KB_AB_2EE	22.00
KB_AUF_2EE	23.00
ATC Valve Drive Axle	ATC valve (drive axle)
Retarder datalink	Retarder datalink
Drive axle valve configuration	2 valves on drive axle
Additional axle sensor configuration	2 sensors on additional axle
ATC Brake Control	enabled
Learned Steer Axle Tire Circumference	487.82 revolutions/mile
Learned Additional Axle Tire Circumference	487.82 revolutions/mile

Description	Parameter Value
Sensor Air Gap Speed Threshold Steer Axle Left	2.33 mph
Sensor Air Gap Speed Threshold Steer Axle Right	2.33 mph
Sensor Air Gap Speed Threshold Additional Axle Left	7.30 mph
VIN length	Error
ACC Mounting Offset	12.61 inches
Stationary Object Warning	enabled
Direct TSC1 Control	disabled
Multilane AEB	disabled
RSP	enabled
Steering Angle Sensor Orientation	standard
Lateral Acceleration Sensor Orientation	standard
ESP_ADVANCED	enabled
ECU Voltage Configuration	Configured for 12V
PLC Configuration	PLC
Sensor Threshold Speed Steer Axle Right	0.00 mph
Sensor Threshold Speed Drive Axle Right	0.00 mph
Sensor Threshold Speed Additional Axle Right	0.00 mph
Wheel Speed Steer Axle Right	0.31 mph
Wheel Speed Drive Axle Right	0.31 mph
Wheel Speed Additional Axle Right	0.31 mph
ATC Mud and Snow Switch	Off
Stop Light Switch	Off
Brake Primary Line Pressure	0.00 psi
Air Bag Pressure	0.00 psi
Yaw Rate	0.11 degrees/sec

Description	Parameter Value
Sensor Air Gap Speed Threshold Drive Axle Right	2.49 mph
Sensor Air Gap Speed Threshold Drive Axle Left	5.59 mph
Sensor Air Gap Speed Threshold Additional Axle Right	2.64 mph
VIN	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
Following Distance Alert Configuration	8.00
Momentary FDA BDR Triggered	Continuous FDA alerts
Highway Departure Braking	Highway departure warning and braking disabled
ACC Type	not available
Yaw Control	enabled
Yaw Rate Sensor Orientation	standard
Air Bag	disabled
ECU Model	Advanced ECU
ECU Mounting Type	Cab ECU
Sensor Threshold Speed Steer Axle Left	0.00 mph
Sensor Threshold Speed Drive Axle Left	0.00 mph
Sensor Threshold Speed Additional Axle Left	0.00 mph
Wheel Speed Steer Axle Left	0.31 mph
Wheel Speed Drive Axle Left	0.31 mph
Wheel Speed Additional Axle Left	0.31 mph
Diagnostic Switch	Off
ABS Off-Road Switch	Off
Traction Control Override Switch	Off
Brake Secondary Line Pressure	0.00 psi
Steering Angle	-553.82 degrees
Lateral Acceleration	0.04 g

DTC REPORT

Connection Date: July 14, 2023 4:26 PM
Print Date: July 14, 2023 4:26 PM
Bendix® ACom® PRO™ Diagnostics 2023 v1
Bendix ACom Customer Support
• 800-AIRBRAKE
• TechTeam@bendix.com

Description	Parameter Value	Description	Parameter Value
Bendix Wingman® FLR21™ Radar Sensor			
OEM Software Part Number	K139826	OEM Software Version Number	BX161502
System Supplier ID	Bendix CVS	Manufacturing Date	20191018
Serial Number	194208198	VIN	0.00
OEM Part Number	K108465X002	ECU Part Number	K096653;000
ECU Part Number Revision	000	Application Software Number	K139826
Application Software Version	BX161502	System Name	FLR21
Repair Shop Code	0.00	Programming Date	20191119
Calibration Date	20191119	Calibration Equipment Software Number	0.00
ECU Installation Date	20191119	ODX File Identifier	0.00
Boot Software Identification	HQB05A01	Application Software Identification	BX161502
Application Data Identification	BX161a02	PCB Serial Number	194208198
PCB Manufacturing Date	20191018	Checkpoint Revision	1.56.2.2.1.4
Radar mounting offset (NVM)	0.0 mm	Stationary Object Warning	On
Momentary FDA Alerts	Off	Direct TSC1 Control	On
Traffic Sign Recognition	Enabled	Wingman Configuration	Wingman VORAD CWS/SmartCruise
Mirror Azimuth	-0.2 degrees	Mirror Elevation	-0.3 degrees
Mounting Offset	0.00 inches	Alignment Value	0.80 degrees
Following Distance Alert Configuration	1	CCVS Operation Elements	255.0
CCVS Veh Speed	255.0	EEC2 Accelerator Pedal	255.0
CCVS CC Active	255.0	CCVS CC Set Speed	255.0