

**CPC02T - Common Powertrain Controller EPA10**


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ASL: Engine brake lever position	0
ASL: Governor Type	15
ASL: Number of MCM communication timeouts prior to MU_ID 76 fault logging	1
ASL: Power Rating Actual Engine Map	1
ASL: Power Rating Requested Engine Map	1
ASL: Shutdown Engine Override Count	257

**\* (enumeration)**

ASL: Cruise Control Deactivate Status	CC Master Switch
ASL: EEC1 Controlling Device SA	Engine #1
ASL: ERC1 Controlling Device SA	GLOBAL (All-Any Node)
ASL: Engine brake path state	EBM_NOT_ACTIVE
ASL: Governor path state	IDLE_GOV
ASL: Latest OI dropout reason t0	OI enable fault
ASL: Latest OI dropout reason t-1	OI enable fault
ASL: Latest OI dropout reason t-2	OI enable fault
ASL: Latest OI dropout reason t-3	OI enable fault
ASL: Latest OI dropout reason t-4	OI enable fault
ASL: MCM UDS Synch Status	MCMSYNC_READY_FOR_MCM_TOOL_CONNECT
ASL: Maximum speed path state	PROGRESSIVE_SHIFT
ASL: Minimum speed path state	GENERAL_MIN_SPEED
ASL: OI Thermostat Status	snv
ASL: Optimized Idle Alarm Status	snv
ASL: Optimized Idle Lamp Status	snv
ASL: Optimized Idle Run Reason Status	Thermostat_Regular
ASL: Optimized Idle System Status	OI_NOT_ARMED_FOR_CYCLE
ASL: PTO Status	Park Brake not engaged
ASL: Predictive Cruise Control internal state	PCC_DISABLED
ASL: RSL path Vspeed adder information	ADD_NONE
ASL: RSL path Vspeed limiter information	MAX_ROADSPEED
ASL: Requested Remote PTO Speed	no Remote Speed Requested
ASL: Speed path state	IDLE_SPEED
ASL: Torque Speed Command Sender	GLOBAL (All-Any Node)
ASL: Torque path state	THROTTLE_INPUT
ASL: Vehicle Power Shutdown Status	snv
ASL: engine ecu combination	HDEP_MCM
DSL: ABS System Active	Not available
DSL: Air Conditioner Status	On (grounded)
DSL: Amber Warning Lamp	Off
DSL: Cab PTO Enable	not active
DSL: Cab PTO Resume/Accel	not active
DSL: Cab PTO Set/Coast	not active
DSL: Carb Nox Speed Limiter Flag	active
DSL: Clutch Open	Released (grounded)

DSL: Continuous shutdown override active	not active
DSL: Cruise Active Lamp	Off
DSL: Cruise Control Enable	Off (open)
DSL: Cruise Control Pause	Off (open)
DSL: Cruise Control Resume/accel	Off (open)
DSL: Cruise Control Set/Coast	Off (open)
DSL: Cruise Control Status	Off
DSL: DEF Level Low Lamp	Off
DSL: DPF Inhibit Switch Status	Not available
DSL: DPF Regen Switch Status	Off (open)
DSL: DPF Regeneration Lamp	Off
DSL: Deceleration Lamp	Not configured
DSL: Drive Requested Engine Brake Disable	not available
DSL: Engine Brake Active	not active
DSL: Engine Brake Disable	Not available
DSL: Engine Brake Low	Off (open)
DSL: Engine Brake Medium	Off (open)
DSL: Ether Start	Not available
DSL: External Engine Shutdown Switch	Not available
DSL: External Engine Shutdown via J1939	Not available
DSL: Fan Control Override	Off (open)
DSL: Fast Engine Heat Up Switch	Not available
DSL: High Exhaust System Temperature Lamp	Off
DSL: Hood Tilt Switch	Not available
DSL: Idle/PTO shutdown driver alert	not active
DSL: Idle/PTO shutdown occurred	not active
DSL: Idle/PTO timer active	not active
DSL: Idle Validation Switch 1	On (grounded)
DSL: Idle Validation Switch 2	Off (open)
DSL: Idle Volume Active Status	not available
DSL: Ignition Switch	On (shorted to battery)
DSL: Input 1/11 State	Off (open)
DSL: Input 2/11 State	Off (open)
DSL: Low Battery Voltage Lamp	Off
DSL: Low Coolant Level Lamp	Off
DSL: Low Oil Pressure Lamp	Off
DSL: Malfunction Indicator Lamp	Off
DSL: Neutral Switch	Not available
DSL: Noise Lim Veh Conf Flag	active
DSL: Parking Brake	Off (open)
DSL: RPM Freeze	Not available
DSL: Red Stop Lamp	Off
DSL: Remote Accelerator Select Switch	Not available
DSL: Remote VSG Switch	Off (open)
DSL: Retarder Lever Input #0	Not available
DSL: Retarder Lever Input #1	Not available
DSL: Retarder Lever Input #2	Not available
DSL: Retarder Lever Input #3	Not available

DSL: Retarder Lever Input #5	Not available
DSL: Rsl Com Deb Status	Not available
DSL: Service Brake	not active
DSL: Shutdown Override	Released (grounded)
DSL: Starter Lockout/Run Signal	Off (open)
DSL: Starter Signal	Invalid
DSL: Status Cc Retarder Stage 1 Control	off (open)
DSL: Status Cc Retarder Stage 2 Control	not active
DSL: Status Engine Break Disable Switch	not active
DSL: Status Limiter 2	Not available
DSL: Throttle Inhibit	Not available
DSL: Top2 Lockout Solenoid	Off (open)
DSL: Top2 Shift Solenoid	Not configured
DSL: Transmission Retarder Active	Not configured
DSL: Two Speed Axle Switch	Off (open)
DSL: Wait to Start Lamp	Not available
DSL: Water-in-Fuel Lamp	Off
DSL: Water-in-Fuel Lamp	Off

### Angular Speed

ASL: Actual Engine Speed	0 rpm
ASL: Demanded Engine Speed	608 rpm
ASL: EC P1 Speed	608 rpm
ASL: EC P2 Speed	1552 rpm
ASL: EC P3 Speed	844 rpm
ASL: EC P4 Speed	1240 rpm
ASL: EC P5 Speed	1316 rpm
ASL: EC P6 Speed	1619 rpm
ASL: EC P7 Speed	2480 rpm
ASL: Maximum Engine Speed	1550 rpm
ASL: Minimum Engine Speed	600 rpm
ASL: Nmax Gov0 rpm	4000 rpm
ASL: Nmax Gov4 rpm	4000 rpm
ASL: Nmax Gov5 rpm	4000 rpm
ASL: Torque Speed Command Engine Speed Limit	* rpm
ASL: Torque Speed Command Engine Speed Request	* rpm

### Economy

ASL: Average fuel economy	6.2801 mpg
ASL: FEI momentary fuel eco for diag	0.0000 mpg
ASL: Instantaneous fuel economy	0.0000 mpg

### Flow

ASL: Amount of fuel consumed by engine	0.000 gal/hr
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### kgm<sup>2</sup>

ASL: J1939 Moment of Inertia	1.3600 kgm <sup>2</sup>
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### Percentage

ASL: Accelerator Pedal Position	0.00 %
ASL: Accelerator Pedal Raw Sensor Value	12.0000 %
ASL: Analog Remote Pedal	0.0000 %
ASL: Coolant Level	100 %
ASL: DPF Ash Volume	7.0000 %
ASL: EC P1 Torque	65 %
ASL: EC P2 Torque	99 %
ASL: EC P3 Torque	79 %
ASL: EC P4 Torque	100 %
ASL: EC P5 Torque	100 %
ASL: Idle Volume Position Signal	0 %
ASL: J1939 CM1 Fan Sa1 Request	0.0 %
ASL: J1939 CM1 Fan Sa2 Request	* %
ASL: PWM Output	0 %
ASL: PWM Pedal Signal GAS1	0 %
ASL: PWM Pedal Signal GAS2	0 %
ASL: SPN512 drivers demand percent torque	0 %
ASL: SPN513 actual engine percent torque	0 %
ASL: SPN92 percent load at current speed	0 %
ASL: Torque Speed Command Engine Torque Limit	* %
ASL: Torque Speed Command Engine Torque Request	* %

### Pressure

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

### Speed

ASL: Predictive Cruise Control Offset	0.00000 mph
ASL: Road Speed	0.0 mph
ASL: Set Speed Cruise Control	0.0 mph

### Temperature

ASL: Air Intake Temperature	145 °F
ASL: Ambient Air Temperature	88 °F
ASL: Coolant Temperature	172 °F
ASL: Oil Temperature	156 °F

### Time

ASL: Idle/PTO shutdown timer	0.0000 s
ASL: Optimized Idle Time	0 s
ASL: Total Engine Shutdown Time	6060 s

### Torque

ASL: Absolute Max Torque	1548.9 ft-lb
ASL: Actual Torque	0.0 ft-lb
ASL: Calculated Pedal Torque	0.0 ft-lb
ASL: Corrected Actual Torque	0.0 ft-lb

ASL: Demand Engine Torque	0.0 ft-lb
ASL: Friction Torque	0.0 ft-lb
ASL: Max Retarder Torque	0.0 ft-lb
ASL: Reference Torque	1727.4 ft-lb

**Voltage**

ASL: Air Filter Sensor Voltage	0.000 V
ASL: Coolant Level Sensor Voltage	1.060 V
ASL: Ignition Switch Voltage	12.47 V
ASL: Main Battery Voltage	12.62 V
ASL: Supply Analog Accelerator Pedal	5.310 V
ASL: Supply Analog Remote Pedal	5.300 V

**MCM02T - Motor Control Module EPA10**

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AS101: fis_nop_act	-0.999997 -
AS127: Sporadic Defect Sensor number Storeplace1 Frame IS1	0 -
AS128: Sporadic Defect Sensor number Storeplace2 Frame IS1	0 -
AS129: Sporadic Defect Sensor number Storeplace1 Frame IS4	0 -
AS130: Sporadic Defect Sensor number Storeplace2 Frame IS4	0 -
AS135: Air/Fuel Ratio Sensor Output	0.00 -

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AS071: Smoke Control Status	0.00000
AS089: Wastegate request signal	0
AS093: Weight Factor Ambient Cold	0.00000
AS103: TC Air Pressure Lost Ignition Cycles	4294967295
AS115: HP Leak Actual Value	1.000
AS141: Number of stored MIL-on fault codes	00000000
AS147: read actual lambda	0.00
AS148: read actual lambda for momentary fuel mass	0.000
ASL006: Oil Level	10000
ASL007: Driving Cycle Counter	359665
ASL007: Ignition Cycle Counter	6842
ASL007: SRA1 Status Code	255
Number of Analog Signals: NumberOfAnalogSignals	164
Number of Discrete Signals: NumberOfDiscreteSignals	24

**\* (enumeration)**

AS118: Fan Status	Fan off
AS119: DPF fault reaction	off/ disabled/ false
AS119: EGR fault reaction	off/ disabled/ false
AS119: ITV (reserved in MCM2)	off/ disabled/ false
AS119: MLIT Fault Reaction	off/ disabled/ false
AS119: Override SCR efficiency to 0%	off/ disabled/ false
AS119: SCR Fault Reaction	off/ disabled/ false
AS119: Torque Limiter	off/ disabled/ false
AS119: VNT fault reaction	off/ disabled/ false
AS119: Vehicle Speed Inhibit Request Types	NoReq

AS119: derate request types	NoReq
AS119: shutdown requests	No Req
AS120: Rail pressure state	RPG_OPEN_LOOP
AS122: Fuel Metering Unit Stick Diagnosis State	RPG_DIA_FMU_ABORTED
AS123: Fuel Metering Unit Diagnosis Error State	undefined
ASL004: Active Governor Type	Idle Speed Governor
ASL004: Engine State	Engine Stop
ASL007: SRA3 Status Code	OK
DS001: CEL Lamp status	off/ disabled/ false
DS001: KW/NW validity signal	off/ disabled/ false
DS001: MIL Lamp status	off/ disabled/ false
DS015: Fuel Mass Engine Limit = afr_temp_lim	off/ disabled/ false
DS015: Fuel Mass Engine Limit = altitude_lim	off/ disabled/ false
DS015: Fuel Mass Engine Limit = max_lim	off/ disabled/ false
DS015: Fuel Mass Engine Limit = t_cha_air_lim	off/ disabled/ false
DS016: Fuel Mass Engine Limit = n_grad_lim	off/ disabled/ false
DS016: Fuel Mass Engine Limit = t_doc_lim	off/ disabled/ false
DS016: Fuel Mass Engine Limit = t_tci_lim	off/ disabled/ false
DS016: Fuel Mass Engine Limit = t_tco_lim	off/ disabled/ false
DS017: Fuel Mass Engine Limit = fis_lim in ccf_atc	off/ disabled/ false
DS017: Fuel Mass Engine Limit = min_lim	off/ disabled/ false
DS017: Fuel Mass Engine Limit = p_cha_air_lim	off/ disabled/ false
DS017: Fuel Mass Engine Limit = tc_speed_lim	off/ disabled/ false
DS018: Fuel Mass Engine Limit = fm_max_spi_lh	off/ disabled/ false
DS018: Fuel Mass Engine Limit = wg_tcat_lim	off/ disabled/ false
DS019: Vehicle Check Status	false
DS022: FMM_OBD_BPC_SYSTEM	false
DS022: FMM_OBD_COMPREHENSIV	false
DS022: FMM_OBD_EGR_SYSTEM	false
DS022: FMM_OBD_FUEL_SYSTEM	false
DS022: FMM_OBD_MISFIRE	true
DS022: FMM_OBD_NMHC_CATALYST	false
DS022: FMM_OBD_NOX_CAT_ABSORBER	false
DS023: FMM_OBD_EGS	false
DS023: FMM_OBD_EMISS_OTHERS	false
DS023: FMM_OBD_OXYGEN_SENSOR	false
DS023: FMM_OBD_PM_FILTER	false
DS023: FMM_OBD_VVT_SYSTEM	false
DS024: FIS_READ_FM_DEV_MC_B	not active
DSL001: CAN status (high line)	on/ enabled/ true
DSL001: CAN status (low line)	on/ enabled/ true
DSL001: Decrompression Valve	signal not available
DSL001: Engine Brake	off/ disabled/ false
DSL001: Engine Exhaust Flap	signal not available
DSL001: Reserved for Status HC Doser Line	signal not available
DSL001: Status of Fuel Cutoff Valve in Doser	off/ disabled/ false
DSL001: Stop Lamp / SEL	off/ disabled/ false
DSL001: Warning Buzzer	off/ disabled/ false

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

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AS163: angle difference of tooth CAM-10 and CRK-57	0.0 °
AS164: maximum angle difference of tooth CAM-10 and CRK-57 in one key cycle	0.0 °
ASL002: Main Injection Start (Average)	0.00000 °

### Angular Speed

AS104: Amplitudes of the average spectral line 1	0.000 rpm
AS105: Amplitudes of the average spectral line 3	0.000 rpm
AS106: Speed increase, Cylinder 1	0.0 rpm
AS107: Speed increase, Cylinder 2	0.0 rpm
AS108: Speed increase, Cylinder 3	0.0 rpm
AS109: Speed increase, Cylinder 4	0.0 rpm
AS110: Speed increase, Cylinder 5	0.0 rpm
AS111: Speed increase, Cylinder 6	0.0 rpm
AS112: Speed increase, Cylinder 7	0.0 rpm
AS113: Speed increase, Cylinder 8	0.0 rpm
AS131: Crankcase Ventilator Oil Separator Speed	0 rpm
ASL002: Engine Speed	0.00 rpm
ASL002: Maximum Engine Speed	1549.75 rpm
ASL002: PTO Set Speed	0 rpm

ASL002: Redundant Engine Speed	0 rpm
ASL002: Requested Engine Speed	600.00 rpm
ASL002: Turbo Speed 1	0 rpm
ASL002: Turbo Speed 2	-5 rpm
ASL006: Fan Speed	0 rpm
<b>bar-abs</b>	
AS098: desired rail pressure	0.00 bar-abs
AS099: rail pressure deviation	-6.125 bar-abs
AS124: LPPO Fuel Pressure	8.01 bar-abs
ASL001: Rail Pressure	6.50 bar-abs
<b>deg</b>	
AS139: Fuel injection timing	0.000 deg
<b>Flow</b>	
AS114: RPG COMPENSATION	0.000 gal/hr
<b>kg/sec</b>	
ASL003: EGR Mass Flow Rate	1.6384 kg/sec
ASL003: Engine Inlet Air Mass Flow Rate	0.0000 kg/sec
<b>mA</b>	
AS100: Quantity Control Valve Current	0.0 mA
AS121: Quantity Control Valve Desired Current	0.0 mA
<b>Mass Flow</b>	
AS088: Measured Air Mass	0.00000 kg/s
AS091: Intake Air Flow Rate	0.00000 kg/s
AS132: Fuel Trim	0.00000 kg/s
<b>mg/st</b>	
AS086: Requested Fuel Mass	14.0000 mg/st
AS087: Actual Fuel Mass	0.0000 mg/st
<b>min-1/s</b>	
ASL002: Engine Speed Acceleration Limitation	-0.25 min-1/s
<b>Percentage</b>	
AS077: Fuel Cut Off Valve	0.00 %
AS090: Wastegate return position	S.N.A %
AS094: Actual Torque Load	0.000 %
AS125: Fuel Filter State	0 %
AS133: EGR Error between Actual and Commanded	0.00 %
AS134: Commanded Boost Pressure	0.00 %
ASL001: APCRS Rail Pressure Valve Position	50.00 %
ASL003: Commanded EGR Ratio	1.590 %
ASL004: EGR Actual Valve Position	1.25 %
ASL004: EGR Commanded Governor Value	0.00 %
ASL004: Fan - (PWM06)	100.00 %
ASL004: Fuel Doser Injection Status	0.00 %
ASL004: Jake Brake 1 - (PWM13)	0.00 %



ASL004: Jake Brake 2 - (PWM07)	0.00 %
ASL004: Throttle Valve Actual Position	0.30 %
ASL004: Throttle Valve Commanded Value	0.00 %
ASL004: VTG 1 Actual Valve Position	0.00 %
ASL004: VTG 1 Commanded Governor Value	5.00 %
Idle Speed Balance Values: Cylinder #1	0 %
Idle Speed Balance Values: Cylinder #2	0 %
Idle Speed Balance Values: Cylinder #3	0 %
Idle Speed Balance Values: Cylinder #4	0 %
Idle Speed Balance Values: Cylinder #5	0 %
Idle Speed Balance Values: Cylinder #6	0 %

**Pressure**

AS054: Differential Pressure ICooler Out	0.0000 psi
AS092: Compressor Inlet Pressure	0.7252 psi
ASL003: Differential Pressure Compressor Out	0.0725 psi
ASL003: Doser Fuel Line Pressure	9.2643 psi
ASL003: EGR Delta Pressure	0.0018 psi
ASL003: Exhaust Manifold Pressure	14.3406 psi
ASL003: Fuel Compensation Pressure	32.08 psi
ASL003: Inlet Manifold Pressure	14.36 psi
ASL003: Oil Pressure	0.0000 psi
ASL003: Pressure Compressor Out	0.0725 psi
ASL003: Pressure EGR	14.3406 psi
ASL003: Pressure ICooler Out	14.3633 psi
ASL006: Barometric Pressure	14.48 psi

**Speed**

ASL002: Vehicle Speed	0.0 mph
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**Temperature**

ASL005: Charge Air Cooler Outlet Temperature	107 °F
ASL005: Coolant Temperature	173 °F
ASL005: Coolant Temperatures 2	148 °F
ASL005: EGR Temperature after Cooler	32 °F
ASL005: Exhaust Manifold Temperature	146 °F
ASL005: Fuel Temperature	126 °F
ASL005: Inlet Manifold Temperature	146 °F
ASL005: Oil Temperature	156 °F
ASL005: Temperature Compressor In	86 °F
ASL005: Temperature Compressor Out	94 °F

**Time**

AS097: ehm_l_water_lifetime_count	0 s
AS102: TC Air Pressure Lost Total Time	4294967296 s
AS126: Fuel Temperature 2 High Counter	0.0000 min
AS137: Continuous MI counter	0 h
AS138: Cumulative continuous MI counter	19 h
AS140: last engine start counter	0 s

ASL002: Main Injection Time (Average)	0.000 msec
ASL007: Engine Operating Hours	10478 h

**Torque**

ASL002: Actual Torque	0.00 ft-lb
ASL002: Maximum Available Torque	0.00 ft-lb
ASL002: Requested Torque	-14.75 ft-lb

**Voltage**

ASL006: Battery Voltage	12.58 V
ASL006: Water Level for Fuel Filter Water Separator	4.52590847 V

**ACM02T - Aftertreatment Control Module EPA10**

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AS011: DPF success counter based on soot	0
AS012: Success counter based on soot-low temp regeneration	0
AS029: Dosing Correction Factor	1.00
AS032: NOx out sensor lambda lin	-200
AS033: NOx out sensor lambda	-200
AS041: KM Parity	0
AS042: Vehicle motion	0
AS045: DPF-1 Sensor value	0
AS046: DPF-2 Sensor Value	0
AS047: Soot sensor value	0
AS048: SCR-1 Sensor value	0
AS049: SCR-2 Sensor value	0
AS050: SCR-3 Sensor value	0
AS055: Success counter based on autotime low temp regen	165
AS056: Number of Aborted regeneration counter	0
AS057: DPF condition success counter	178
AS065: Actual DPF zone	1
AS069: EOM Engine state	1
AS070: Engine operating point state	0
AS074: Success counter based on Autotime	13
AS078: Counter for the last low temperature regeneration	0
AS079: ADS priming request	0
AS081: Error detection KM counter Case1 MLIT for JP09	0
AS082: Error recovery KM counter Case1 MLIT for JP09	0
AS083: Error detection KM counter Case3 MLIT for JP09	0
AS084: Error recovery KM counter Case3 MLIT for JP09	0
AS088: UDC Dosing state	8
AS089: Cycle counter for distance_zone0	0
AS090: Cycle counter for fuel_zone0	0
AS091: Cycle counter for time_zone0	0
AS101: Nox conversion efficiency	0.02550
AS102: No of sporadic defect sensor 1	0
AS103: No of sporadic defect sensor 2	0
AS105: NOx Sensor Dewpoint enabled Inlet	0

AS106: NOx Sensor Dewpoint enabled Outlet	0
AS109: Ash Filter Full Volume	7.0
AS110: Adblue Pressure EDU	65535
Number of Analog Signals: NumberOfAnalogSignals	123
Number of Discrete Signals: NumberOfDiscreteBytes	8
<b>* (enumeration)</b>	
AS064: DPF Regen State	No regeneration activity
AS100: DPF fault reaction	off/ disabled/ false
AS100: DPF protection	off/ disabled/ false
AS100: DPF safe mode	off/ disabled/ false
AS100: EGR fault reaction	off/ disabled/ false
AS100: ITV (reserved in MCM2)	off/ disabled/ false
AS100: Limit Urea Dosing Fault Reaction	off/ disabled/ false
AS100: MLIT Fault Reaction	off/ disabled/ false
AS100: Override SCR efficiency to 0%	off/ disabled/ false
AS100: SCR Fault Reaction	off/ disabled/ false
AS100: Torque Limiter Fault Reaction	off/ disabled/ false
AS100: VNT fault reaction	off/ disabled/ false
AS100: Vehicle Speed Inhibit Request Types	NoReq
AS100: derate request types	NoReq
AS100: shutdown requests	No Req
AS116: Actual DPF State Machine Status	Base mode - No regen request
DS001: Dosing enable APS	off/ disabled/ false
DS001: Enable compressed air pressure	off/ disabled/ false
DS001: Engine run	off/ disabled/ false
DS001: Ignition	on/ enabled/ true
DS002: ADS ready for Dosing	off/ disabled/ false
DS002: CAN enable	on/ enabled/ true
DS002: Components enable	on/ enabled/ true
DS002: Enable ADS	off/ disabled/ false
DS003: Dosing enable UPS	off/ disabled/ false
DS003: Enable DEF pump	off/ disabled/ false
DS003: HC flag	off/ disabled/ false
DS003: Pressure dosing enable UPS	off/ disabled/ false
DS004: Line Heater 1	off/ disabled/ false
DS004: Line Heater 2	off/ disabled/ false
DS004: Line Heater 3	off/ disabled/ false
DS004: Line Heater 4	off/ disabled/ false
DS005: Coolant Valve	off/ disabled/ false
DS005: DEF Metering Unit General Heater	off/ disabled/ false
DS005: DEF Purge Performed b	off/ disabled/ false
DS006: FMM CEL Status	off/ disabled/ false
DS006: FMM MIL Status	off/ disabled/ false
DS006: FMM SEL Status	off/ disabled/ false
DS006: Warning Buzzer Ctrl Status	on/ enabled/ true
DS007: Over the Road Regen Disable Status	off/ disabled/ false

DS008: Diffuser Heater off/ disabled/ false

### Angular Speed

AS001: Engine Speed 0 rpm

### Current

AS054: ECU Current 43 A

### Distance

AS037: dpf\_mod\_ash\_dist\_accum 0.6 miles  
 AS058: Dist. since the end of last regeneration 1188.1 miles  
 AS059: Accumulated dist. since the end of last regeneration 1188.1 miles

### g/h\*kw

AS107: Brake specific NOx out value 0 g/h\*kw  
 AS108: Brake specific NOx out value 0.00 g/h\*kw

### mA

AS027: DEF Pump Current 0 mA

### Mass

AS038: dpf\_mod\_ash\_fuel\_accum 31101 pound  
 AS060: Consumed fuel mass since the end of last regeneration 6 pound  
 AS061: Accumulated consumed fuel mass since the end of last regeneration 6 pound  
 AS087: Accumulated DEF Consumption 4118 pound

### Mass Flow

AS028: Fuel mass flow rate 0 Kg/h  
 AS030: Exgas mass flow rate 0 Kg/h  
 AS031: NOx mass flow rate 0.000 Kg/h  
 AS071: Injection rate actual 0 g/sec  
 AS073: PM mass flow rate 0.000 Kg/h  
 AS080: DEF quantity request sent to ADS 0 g/h  
 AS085: Actual DEF Dosing Quantity 0 g/h  
 AS086: Requested DEF Dosing Quantity 0 g/h

### Percentage

AS013: Actual Torque 0 %  
 AS024: DEF Tank Level 79 %  
 AS025: DEF Tank Level -raw value 79 %  
 AS026: Air before Compressor Humidity 0 %  
 AS044: Fuel tank level 54 %  
 AS104: Dosing Duty cycle dosing valve 0 %  
 AS122: Pressure Limiting Unit 0 %

### Power

AS114: DOC Heat Generation 0 BHP  
 AS115: DPF Heat Generation 3 BHP  
 AS118: SCR Heat Generation 0 BHP

### ppm

AS034: SCR NOx raw emission correction	0 ppm
AS035: SCR Outlet NOx Sensor	-100 ppm
AS036: SCR Inlet NOx Sensor	-100 ppm
AS072: SCR NOx target emission	0 ppm

**Pressure**

AS003: Ambient Air Pressure	14.50 psi
AS005: DOC Inlet Pressure	0.00 psi
AS006: DPF Outlet Pressure	0.00 psi
AS014: DEF Pressure	15.46 psi
AS015: DEF Pressure raw value	15.47 psi
AS016: DEF Air Pressure	14.50 psi
AS017: DEF Air Pressure Raw Value	14.50 psi
AS092: Avg. DEF Dosing Pressure	0.00 psi

**Speed**

AS077: Vehicle speed from ISP100ms	0.0 mph
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**Temperature**

AS002: Coolant Temperature	172 °F
AS007: DOC Inlet Temperature	164 °F
AS008: DOC Outlet Temperature	180 °F
AS009: DPF Outlet Temperature	155 °F
AS010: Air before Compressor Temperature	32 °F
AS018: SCR Inlet Temperature	156 °F
AS019: SCR Outlet Temperature	133 °F
AS020: DOCB temperature out	-40 °F
AS021: DEF Temperature	99 °F
AS022: DEF tank Temperature	84 °F
AS023: ECU temperature sensor	95 °F
AS040: Post DPF temp (second flood)	122 °F
AS051: Second flood Catalyst temperature in	32 °F
AS052: Second flood Catalyst temperature-out	32 °F
AS053: Ambient Air Temperature	94 °F
AS075: NOx out temperature sensor	32 °F
AS076: NOx raw temperature sensor	32 °F
AS111: DOC Out Model Delay	179 °F
AS112: DOC Out Model Delay - Non fueling	179 °F
AS113: DPF Out Model Delay	155 °F
AS117: SCR Out Model Delay	134 °F
AS120: DPF Target Temperature	32 °F
AS121: Estimated DOC Outlet Temperature	32 °F

**Time**

AS039: dpf_mod_ash_time_accum	0 sec
AS062: Time since the end of last regeneration	1974 min
AS063: Accumulated time since the end of last regeneration	1974 min
AS066: Avg. of Zone0 duration of last N cycles-based on dist. trigger	0 min
AS067: Avg. of Zone0 duration of last N cycles-based on fuel trigger	0 min

AS068: Avg. of Zone0 duration of last N cycles-based on time trigger	2149 min
AS119: Regeneration Time	0 min

**Voltage**

AS004: Battery Voltage	13 V
AS093: DEF Tank Temperature Sensor Voltage	0.44 V
AS094: DEF Tank Level Sensor Voltage	2.13 V
AS095: SCR Inlet Temperature Sensor Voltage	0.60 V
AS096: SCR Outlet Temperature Sensor Voltage	0.58 V
AS097: DEF Temperature Sensor Voltage	1.22 V
AS098: DEF Pressure Sensor Voltage	0.55 V
AS099: DEF Air Pressure Sensor Voltage	0.47 V

**Volume**

AS043: Fuel tank volume	1731.25 gal
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