

Current Date		17-Sep-26
Service Tool	INSITE	
Service Tool Version	10.1.0.67 / Datapack 10.1.00067	
ECM Image		
WorkOrder Information		
WorkOrder Name	WO-20260917-131942	
WorkOrder ID	(D4BF8146-C099-4DDF-870B-5147D2029074)	
Status	Good	
Start Repair Date	17/09/2026 1:19:42 PM	
Last Modified Date	17/09/2026 1:20:18 PM	
Customer Name	TIJ TPT	
Customer Contact	TAMBORINE	
Technician Name		
Service Site	yatala	
System Type	ISX15 CM2250 SN	
Technician's Note		
Engine Serial Number		80448150
Engine Make	CMMNS	
Engine Model	6X3e05D1500000000	
ECM Serial Number		4909
Vehicle ID	6F500000NA475998	
Vehicle Unit Number		0
Vehicle Make	KENWORTH	
Vehicle Model	T659	
Vehicle Odometer"	Enter Vehicle Mileage	
Image Information		
Image Name	I-20260917-131927006	
Image ID		10289
Date	17/09/2026 1:19:27 PM	
Image Type	Initial	
File Location	C:\Intelect\INSITE\WorkOrders\I-20260917-131927006	
Technician's Note		
ECM	CM2250	
ECM State	Good	
Features and Parameters		
ISX15 CM2250 SN		
CM2250		
System ID and Dataplate		
System ID and Dataplate - Calibration Information		
Calibration Software Phase	5.10E+141	
Calibration Time/Date Stamp		31722231926
DO Option		1757
ECM Code	DS10011.25	
Other Options		
SC Option		11908
System ID and Dataplate - Customer Information		
Customer Location	TAMBORINE	
Customer Name	TIJ TPT	
Customer Unit Number		0
System ID and Dataplate - ECM Information		
ECM Name	CM2250	
ECM Part Number		4993120
ECM Serial Number		4909
System ID and Dataplate - Engine Information		
Engine Build Date		80922
Engine Make	CMMNS	
Engine Model	6X3e05D1500000000	
Engine Serial Number		80448150
System ID and Dataplate - System Information		
Advertised Power at RPM		485 hp
Advertised Power RPM		2000 rpm
Control Parts List		3574
Fuel Code	FC0PE27	
Governed Speed		2000 rpm
Peak Torque at RPM		2237 N*m
Peak Torque RPM		1200 rpm
System ID and Dataplate - Vehicle/OEM Information		
OEM Name	KENWORTH	
OEM Vehicle or Equipment Model	T659	
Vehicle Identification Number or Equipment Serial Number	6F500000NA475998	
Vehicle or Equipment Year		2022
Accelerator Interlock	Disable	
Accelerator Options		
Accelerator Options - Dual Accelerator	Enable	
Adjustable Low Idle Speed	Enable	
Low Idle Speed		600 rpm

Adjustable Low Idle Speed - Low Idle Speed Adjustment Switch	Enable	
Aftertreatment		
Aftertreatment - SCR Aftertreatment		
Aftertreatment - SCR Aftertreatment - Diesel Exhaust Fluid Heater		
Aftertreatment - SCR Aftertreatment - Diesel Exhaust Fluid Heater - Diesel Exhaust Fluid Heater Configuration	Enable	
Diesel Exhaust Fluid System Heating Type	None	
Aftertreatment - SCR Aftertreatment - Diesel Exhaust Fluid Heater - Diesel Exhaust Fluid Line Heater 1 Relay	Disable	
Aftertreatment - SCR Aftertreatment - Diesel Exhaust Fluid Heater - Diesel Exhaust Fluid Tank Heater 1 Relay	Disable	
Aftertreatment - SCR Aftertreatment - Diesel Exhaust Fluid Tank Configuration	Enable	
Aftertreatment - SCR Aftertreatment - Diesel Exhaust Fluid Tank Configuration - Diesel Exhaust Fluid Tank Type	Linear	
Linear Diesel Exhaust Fluid Tank Volume		125 L
Air Shut Off Valve	Disable	
Alternator Failure Warning	Enable	
Idle Speedup	Disable	
Clutch Pedal Position Switch	Installed	
Cruise Control	Enable	
Cruise Control Lower Droop		0 km/hr
Cruise Control Upper Droop		0 km/hr
Maximum Cruise Control Speed		100 km/hr
Cruise Control - Adaptive Cruise	Disable	
Cruise Control - Cruise Control Auto-Resume	Disable	
Cruise Control - Cruise Control Save Set Speed	Enable	
Cruise Control and Engine Brake Interaction	Enable	
Start Maximum Engine Braking		10 km/hr
Start Minimum Engine Braking		5 km/hr
Cruise Control Switch Setup		
Switch Setup	Set/Coast (Resume/Accelerate)	
Driver Reward	Disable	
Electrical System Voltage		
Electrical System Voltage	12V	
Engine Brake Control	Enable	
Delay Time		0.5 s
Engine Brake Type	Engine Compression Brake	
Minimum Vehicle Speed		0 km/hr
Engine Brake Control - Clutch Pedal Activation	Enable	
Engine Brake Control - Engine Brake Lamp	Disable	
Engine Brake Control - Service Brake Activation	Disable	
Engine Coolant Level Sensor	Installed	
Engine Oil Pressure Sensor	Enable	
Engine Protection	Enable	
Engine Protection - Engine Coolant Level	Enable	
Engine Protection - Engine Coolant Level - Time Based Shutdown	Disable	
Engine Protection - Engine Coolant Level - Torque Derate	Enable	
Engine Protection - Limited Restart	Enable	
Engine Protection - Shutdown	Disable	
Engine Protection - Shutdown Manual Override	Disable	
Engine Warmup Protection	Enable	
Enhanced Auxiliary Shutdown Switch	Disable	
Ether Injection	Disable	
Fan Control	Enable	
Fan Control Logic	0 Volt On	
Fan Control - Air Conditioning Pressure Switch Input	Enable	
Minimum Fan On Time for Air Conditioning Pressure Switch		30 s
Fan Control - Air Conditioning Pressure Switch Input - Vehicle Speed Interaction	Disable	
Fan Control - Fan Control Switch	Enable	
Fan Control - Fan Minimum Run Time	Enable	
Minimum Run Time		0:00:00 HH:MM:SS
Fan Control - Fan on with Engine Braking	Disable	
Fan Control - Fan on With Remote Throttle	Disable	
Fan Control - Fan Type	On/Off	
Gear Down Protection	Disable	
Governor Type		
Governor Type	Automotive	
Governor Type - Governor Type Switch	Disable	
High NOx Reset	Enable	
Idle Shutdown	Disable	
J1939 Controls	Enable	
J1939 Service Reset	Enable	
J1939 Stop Broadcast Allowed	Enable	

J1939 Trip Reset	Enable	
Load Based Speed Control	Disable	
Maintenance Monitor	Disable	
Maximum Vehicle Speed Control	Enable	
Accelerator Pedal Override	Disable	
Control Mode	Road Speed Governor	
Engine Brake Switch Override	Disable	
Start Maximum Engine Braking		110 km/hr
Start Minimum Engine Braking		110 km/hr
OEM Ambient Air Temperature Sensor	Enable	
Parking Brake Switch	Enable	
Powertrain Protection	Disable	
PTO	Enable	
PTO Speed 1 Device		
PTO Speed 2 Device		
PTO Speed 3 Device		
PTO Speed 4 Device		
PTO Speed 5 Device		
PTO Speed 6 Device		
PTO Speed 7 Device		
PTO Speed 8 Device		
Additional Switch Speed		1000 rpm
Maximum Engine Load		1085 N*m
Maximum Speed		1500 rpm
Maximum Vehicle Speed		10 km/hr
Minimum Speed		600 rpm
Ramp Rate		250 rpm/s
Resume Switch Speed		1100 rpm
Set Switch Speed		900 rpm
PTO - Accelerator Pedal or Lever Override	Disable	
PTO - Alternate Operation	Disable	
PTO - Clutch Override	Enable	
PTO - Ignore Vehicle Speed Source in PTO	Disable	
PTO - PTO Pump Mode	Disable	
PTO - Remote PTO	Disable	
PTO - Service Brake Override	Enable	
PTO - Zero Vehicle Speed Source Limit	Disable	
Remote Accelerator Pedal or Lever	Disable	
Road Speed Governor	Enable	
Maximum Accelerator Vehicle Speed		100 km/hr
Maximum Vehicle Speed		100 km/hr
Road Speed Governor Lower Droop		0 km/hr
Road Speed Governor Upper Droop		0 km/hr
Road Speed Governor - Reserve Speed	Disable	
Road Speed Governor - Smart Road Speed Governor	Disable	
Road Speed Governor - Switched Maximum Vehicle Speed	Disable	
SAE J1939 Multiplexing		
SAE J1939 Multiplexing - Accelerator Interlock Switch	Disable	
SAE J1939 Multiplexing - Accelerator Pedal Or Lever Position	Disable	
SAE J1939 Multiplexing - Aftertreatment Diesel Exhaust Fluid Tank Level Sensor	Disable	
SAE J1939 Multiplexing - Aftertreatment Diesel Exhaust Fluid Tank Temperature Sensor	Disable	
SAE J1939 Multiplexing - Air Conditioning Pressure Switch	Disable	
SAE J1939 Multiplexing - Ambient Air Temperature Sensor	Disable	
SAE J1939 Multiplexing - Auxiliary Shutdown Switch	Disable	
SAE J1939 Multiplexing - Clutch Pedal Position Switch	Disable	
SAE J1939 Multiplexing - Cruise Control On/Off Switch	Disable	
SAE J1939 Multiplexing - Cruise Control Pause Switch	Disable	
SAE J1939 Multiplexing - Cruise Control Set / Resume Switch	Disable	
SAE J1939 Multiplexing - Diagnostic Test Mode Switch	Disable	
SAE J1939 Multiplexing - Engine Brake Switch Level	Disable	
SAE J1939 Multiplexing - Engine Protection Shutdown Manual Override	Disable	
SAE J1939 Multiplexing - Fan Control Switch	Disable	
SAE J1939 Multiplexing - Idle Increment/ Idle Decrement Switch	Disable	
SAE J1939 Multiplexing - Idle Validation Switch	Disable	
SAE J1939 Multiplexing - Malfunction Indicator Lamp	Disable	
SAE J1939 Multiplexing - Parking Brake	Disable	
SAE J1939 Multiplexing - PTO On/Off Switch	Disable	
SAE J1939 Multiplexing - PTO Set / Resume Switch	Disable	
SAE J1939 Multiplexing - Rear Axle Ratio Switch	Disable	
SAE J1939 Multiplexing - Remote Accelerator Pedal or Lever	Disable	
SAE J1939 Multiplexing - Remote Accelerator Pedal or Lever Switch	Disable	
SAE J1939 Multiplexing - Remote PTO Switch	Disable	
SAE J1939 Multiplexing - Service Brake Switch	Disable	
SAE J1939 Multiplexing - Torque Derate Switch	Disable	
SAE J1939 Multiplexing - Vehicle Limiting Speed Governor Decrement Switch	Disable	
SAE J1939 Multiplexing - Vehicle Limiting Speed Governor Increment Switch	Disable	
SAE J1939 Multiplexing - Vehicle Limiting Speed Governor Switch	Disable	
Service Brake Switch	Enable	
Starter Lockout	Enable	

Starter Lockout Relay Type	Normally Open	
Sudden Deceleration Event Settings	Enable	
Switched Maximum Engine Operating Speed	Disable	
Tire Wear Adjustment	Disable	
Transmission Setup	Enable	
Gear Down Transmission Ratio		0.86
Top Gear Transmission Ratio		0.73
Transmission Type	Manual	
Trip Information	Enable	
ECM Distance Offset		0 km
Engine Distance Offset		0 km
Vehicle Overspeed 1		105 km/hr
Vehicle Overspeed 2		112 km/hr
ECM Time Offset		0 HHHHHH
Engine Time Offset		0 HHHHHH
Variable Rate Vehicle Acceleration Management	Disable	
Vehicle Speed Sensor Anti-Tampering	Enable	
Tampering Sensitivity Level	Low	
Vehicle Speed Source	Enable	
Maximum Engine Speed without Vehicle Speed Source		1500 rpm
Number of Transmission Tailshaft Gear Teeth		16
Rear Axle Ratio		4.1
Tire Size		315 revs/km
Vehicle Speed Sensor Type	Magnetic	
Vehicle Speed Source - Two Speed Rear Axle	Disable	
Water In Fuel Sensor	Installed	
Trip Information		
All Trips (Cumulative)		
All Trips (Cumulative) - Aftertreatment		
Total Diesel Exhaust Fluid Used		11068.3 L
All Trips (Cumulative) - Distance		
Cruise Control Distance		140241.9 km
ECM Distance		605009.9 km
Engine Distance		604923.7 km
Engine Brake Distance		52800.9 km
Gear Down Distance		79666.6 km
Maximum Accelerator Vehicle Speed Distance		59987.9 km
Service Brake Distance		12277 km
Top Gear Distance		434785.9 km
All Trips (Cumulative) - Fuel Used		
Coast Fuel Used		8.5 L
Cruise Control Fuel Used		78591.9 L
Drive Fuel Used		372284.2 L
Fuel Used		378333.1 L
Gear Down Fuel Used		59741.1 L
Idle Fuel Used		3505.3 L
Loaded PTO Drive Fuel Used		0 L
Loaded PTO Stationary Fuel Used		0 L
Maximum Accelerator Vehicle Speed Fuel Used		27045.7 L
PTO Device 1 Total Fuel Used		2122 L
PTO Device 2 Total Fuel Used		1107 L
PTO Device 3 Total Fuel Used		0 L
PTO Device 4 Total Fuel Used		0 L
PTO Device 5 Total Fuel Used		0 L
PTO Device 6 Total Fuel Used		0 L
PTO Device 7 Total Fuel Used		0 L
PTO Device 8 Total Fuel Used		0 L
PTO Drive Fuel Used		0.3 L
PTO Fuel Used		3315.7 L
Top Gear Fuel Used		227597.3 L
All Trips (Cumulative) - Multiple PTO		
PTO Speed 1 Device		
PTO Speed 2 Device		
PTO Speed 3 Device		
PTO Speed 4 Device		
PTO Speed 5 Device		
PTO Speed 6 Device		
PTO Speed 7 Device		
PTO Speed 8 Device		

All Trips (Cumulative) - Other		
Average Engine Load		37.5 Percent
Average Engine Speed		1278 rpm
Drive Average Power		266 hp
Engine Brake Activations		324808
Engine Protection Shutdown Manual Override		0
Maximum Engine Speed		2316 rpm
Number Of Trip Resets		19
All Trips (Cumulative) - Time		
Coast Time	000564:51:07	HH:MM:SS
Cruise Control Time	001471:18:23	HH:MM:SS
Drive Time	007863:58:42	HH:MM:SS
ECM Time (Key On Time)	010330:55:19	HH:MM:SS
Engine Brake Time	000737:22:36	HH:MM:SS
Engine Run Time	010277:55:37	HH:MM:SS
Full Load Operation Time	001466:20:12	HH:MM:SS
Gear Down Time	000961:56:24	HH:MM:SS
Idle Time	001526:46:22	HH:MM:SS
Loaded PTO Drive Time	000000:00:00	HH:MM:SS
Loaded PTO Stationary Time	000000:00:00	HH:MM:SS
Maximum Accelerator Vehicle Speed Time	000598:44:08	HH:MM:SS
PTO Device 1 Total Time	0000313:28	HH:MM:MM
PTO Device 2 Total Time	0000123:38	HH:MM:MM
PTO Device 3 Total Time	0000000:00	HH:MM:MM
PTO Device 4 Total Time	0000000:00	HH:MM:MM
PTO Device 5 Total Time	0000000:00	HH:MM:MM
PTO Device 6 Total Time	0000000:00	HH:MM:MM
PTO Device 7 Total Time	0000000:00	HH:MM:MM
PTO Device 8 Total Time	0000000:00	HH:MM:MM
PTO Drive Time	0000000:03:24	HH:MM:MM:SS
Service Brake Time	000253:54:39	HH:MM:MM:SS
Top Gear Time	004605:10:29	HH:MM:MM:SS
Total PTO Time	000795:45:00	HH:MM:MM:SS
Trip Since Last Reset		
Trip Since Last Reset - Aftertreatment		
Aftertreatment Diesel Exhaust Fluid Used		407.6 L
Trip Since Last Reset - Fuel Used		
Average Fuel Economy		64.9 L/100km
Average Fuel Rate		59.4 L/hr
Fuel Used		15632.7 L
Idle Fuel Used		96.2 L
Loaded PTO Stationary Fuel Used		0 L
PTO Device 1 Trip Fuel Used		59 L
PTO Device 2 Trip Fuel Used		124 L
PTO Device 3 Trip Fuel Used		0 L
PTO Device 4 Trip Fuel Used		0 L
PTO Device 5 Trip Fuel Used		0 L
PTO Device 6 Trip Fuel Used		0 L
PTO Device 7 Trip Fuel Used		0 L
PTO Device 8 Trip Fuel Used		0 L
PTO Fuel Used		191.2 L
Trip Since Last Reset - Other		
Average Engine Load		39 Percent
Average Engine Speed		1340 rpm
Engine Protection Shutdown Manual Override		0
Keyswitch Cycles		464
Maximum Engine Speed		2071 rpm
Number of Idle Shutdown Overrides		0
Number of Idle Shutdowns		0
Trip Since Last Reset - Time		
ECM Time	000398:05:37	HH:MM:SS
Engine Protection Time Derated	000000:00:00	HH:MM:SS
Engine Run Time	000397:13:38	HH:MM:SS
Fan On Time	000027:09:24	HH:MM:SS
Fan Time Due To Air Conditioning Pressure Switch	000000:00:00	HH:MM:SS
Fan Time Due To Engine Conditions	000000:24:22	HH:MM:SS
Fan Time Due To Fan Control Switch	000026:45:01	HH:MM:SS
Fan Time Without Vehicle Speed	000006:58:50	HH:MM:SS
Full Load Operation Time	000061:07:16	HH:MM:SS
Idle Time	000039:37:54	HH:MM:SS
Loaded PTO Stationary Time	000000:00:00	HH:MM:SS
Maximum Accelerator Vehicle Speed Time	000076:55:41	HH:MM:SS
Percent Trip Time At Idle		10 Percent
PTO Device 1 Trip Time	0000008:01	HH:MM:MM
PTO Device 2 Trip Time	0000014:17	HH:MM:MM
PTO Device 3 Trip Time	0000000:00	HH:MM:MM
PTO Device 4 Trip Time	0000000:00	HH:MM:MM
PTO Device 5 Trip Time	0000000:00	HH:MM:MM
PTO Device 6 Trip Time	0000000:00	HH:MM:MM

PTO Device 7 Trip Time	0000000:00	HHHHHH:MM
PTO Device 8 Trip Time	0000000:00	HHHHHH:MM
PTO Time	000040:38:27	HHHHHH:MM:SS

Trip Since Last Reset Drive (Vehicle Speed > 0)

Trip Since Last Reset Drive (Vehicle Speed > 0) - Distance

Coast Distance	803.1 km
Cruise Control Distance	919 km
ECM Distance	24102.1 km
Engine Brake Distance	1366.5 km
Engine Distance	24098.8 km
Gear Down Distance	3439.5 km
Loaded PTO Drive Distance	0 km
Maximum Accelerator Vehicle Speed Distance	7728.9 km
PTO Drive Distance	0 km
Service Brake Distance	695.7 km
Top Gear Distance	16966.3 km
Trip Drive Distance	24098.8 km
Vehicle Overspeed 1 Distance	509.2 km
Vehicle Overspeed 2 Distance	30 km

Trip Since Last Reset Drive (Vehicle Speed > 0) - Fuel Used

Coast Fuel Used	0 L
Cruise Control Fuel Used	426.6 L
Drive Average Fuel Economy	63.7 L/100km
Drive Fuel Used	15337.3 L
Gear Down Fuel Used	2918.1 L
Loaded PTO Drive Fuel Used	0 L
Maximum Accelerator Vehicle Speed Fuel Used	3494.9 L
PTO Drive Fuel Used	0 L
Top Gear Fuel Used	8615.9 L
Vehicle Overspeed 1 Fuel Used	0.1 L
Vehicle Overspeed 2 Fuel Used	0 L

Trip Since Last Reset Drive (Vehicle Speed > 0) - Other

Average Vehicle Speed	60 km/hr
Drive Average Engine Speed	1482 rpm
Drive Average Load	48.5 Percent
Drive Average Power	272 hp
Engine Brake Activations	8765
Engine Brakes Percent Time	4.8 Percent
Maximum Accelerator Vehicle Speed	19 Percent
Maximum Vehicle Speed	122 km/hr
Number of Sudden Decelerations	0
Out of Gear Coasts	0
Service Brake Actuations	9369

Trip Since Last Reset Drive (Vehicle Speed > 0) - Time

Coast Time	000009:28:56	HHHHHH:MM:SS
Cruise Control Time	000009:56:13	HHHHHH:MM:SS
Drive Time	000313:36:35	HHHHHH:MM:SS
Engine Brake Time	000019:09:06	HHHHHH:MM:SS
Fan Time With Vehicle Speed	000020:10:34	HHHHHH:MM:SS
Gear Down Time	000041:11:05	HHHHHH:MM:SS
Loaded PTO Drive Time	000000:00:00	HHHHHH:MM:SS
Maximum Accelerator Vehicle Speed Time	000076:55:41	HHHHHH:MM:SS
Out of Gear Coast Time	000000:00:00	HHHHHH:MM:SS
PTO Drive Time	000000:00:06	HHHHHH:MM:SS
Service Brake Time	000012:10:47	HHHHHH:MM:SS
Top Gear Time	000175:29:15	HHHHHH:MM:SS
Vehicle Overspeed 1 Time	000004:42:23	HHHHHH:MM:SS
Vehicle Overspeed 2 Time	000000:15:46	HHHHHH:MM:SS

ECM Diagnostic Tests

Aftertreatment High NOx Reset
Cylinder Cutout Test
Diesel Exhaust Fluid Doser Pump Air Solenoid Click Test
Diesel Exhaust Fluid Doser Pump Override Test
EFC Actuator Override Test
Engine State Monitor
Fan Override Test
Fuel Injector Performance Test
Fuel System Leakage Test
Setup for Dynamometer
Starter Lockout Relay Driver Override Test
Switch and Sensor Intermittent Connection Test

Data Monitors

Accelerator Pedal Or Lever Position Sensor 2 Signal Voltage	0.5 V
Accelerator Pedal Or Lever Position Sensor 2 Supply Voltage	5 V
Accelerator Pedal Or Lever Position Sensor Signal Voltage	1.06 V
Accelerator Pedal Or Lever Position Sensor Supply Voltage	4.99 V
Aftertreatment Diesel Exhaust Fluid Dosing Unit State	
Aftertreatment Diesel Exhaust Fluid Tank Level	41 Percent

Aftertreatment Diesel Exhaust Fluid Tank Level Sensor Voltage		1 V
Aftertreatment Diesel Exhaust Fluid Tank Temperature		21 °C
Aftertreatment Diesel Exhaust Fluid Tank Temperature Sensor Voltage		1.06 V
Aftertreatment Diesel Exhaust Fluid Used		407.6 L
Aftertreatment Outlet NOx		0 ppm
Aftertreatment Outlet NOx Corrected		0 ppm
Aftertreatment Outlet NOx Reading Stable	Reading Not Available	
Aftertreatment SCR Intake Temperature		25 °C
Aftertreatment SCR Intake Temperature Signal Voltage		4.7 V
Aftertreatment SCR Outlet Temperature		26 °C
Aftertreatment SCR Outlet Temperature Signal Voltage		4.7 V
Air Conditioning Pressure Switch	Off	
Amber Warning Lamp Status	Off	
Anti Theft Status	Unlocked	
Barometric Air Pressure		101.9 kPa
Barometric Air Pressure Sensor Signal Voltage		4 V
Battery Voltage		12.3 V
Brake Pedal Position Switch	Released	
Calibration Software Phase	5.10E+141	
Clutch Pedal Position Switch	Released	
Cruise Control	Inactive	
Cruise Control Accelerate Switch	Off	
Cruise Control Coast Switch	Off	
Cruise Control On/Off Switch	Off	
Cruise Control Set / Resume Switch	Neutral	
Diagnostic Test Mode Switch	Off	
ECM Real Time	Not Applicable	
ECM Time (Key On Time)	010330:55:19	
Engine Distance		HH:MM:SS
Engine Brake Output Circuit 1	Inactive	604923.7 km
Engine Brake Output Circuit 2	Inactive	
Engine Brake Output Circuit 3	Inactive	
Engine Brake Output Circuit 4	Inactive	
Engine Brake Switch Level		
Engine Coolant Level	Normal	0 Percent
Engine Coolant Temperature		53.8 °C
Engine Coolant Temperature Sensor Signal Voltage		1.75 V
Engine Hours	010277:55:37	HH:MM:SS
Engine Oil Pressure		0 kPa
Engine Oil Pressure Sensor Signal Voltage		0.81 V
Engine Oil Pressure Sensor Type	Analog	
Engine Oil Temperature		54.8 °C
Engine Oil Temperature Sensor Signal Voltage		1.75 V
Engine Operating State	Engine Stop	
Engine Protection Derate Suppress	Disable	
Engine Protection Shutdown Override Switch	Off	
Engine Speed		0 rpm
Engine Speed Backup Sensor State	High Input Voltage	
Engine Speed Backup Synchronization State	No Pulse	
Engine Speed Main Sensor Signal State	In Range	
Engine Speed Main Sensor State	High Input Voltage	
Engine Speed Main Synchronization State	No Pulse	
Engine Speed Sensor Active	Main	
Engine Speed Status	Stopped	
Engine Torque Mode	Other	
Engine Warmup Protection Status	Active	
Estimated Machine Mass		36294.6 kg
Exhaust Gas Pressure		0 kPa
Exhaust Gas Pressure Sensor Signal Voltage		0 V
Fan Control Command		100 Percent
Fan Control Multiplexed Request Level		0 Percent
Fan Control Switch	Off	
Fan Drive State	Off	
Final Fueling		0 mg/stroke
Fuel Flow Rate Commanded		0 L/hr
Fuel Pump Actuator Commanded Current		0 mA
Fuel Pump Actuator Duty Cycle		0 Percent
Fuel Pump Actuator Measured Current		0 mA
Fuel Pump Actuator Position	Open	
Fuel Rail Pressure Commanded		500 bar
Fuel Rail Pressure Measured		-8 bar
Fuel Rail Pressure Sensor Signal Voltage		0.49 V
Idle Validation Switch	Idle	
Instantaneous Fuel Economy		0 L/100km
Intake Manifold Air Temperature		44.3 °C
Intake Manifold Air Temperature Sensor Signal Voltage		0.75 V
Intake Manifold Pressure		0 kPa
Intake Manifold Pressure Sensor Signal Voltage		1 V
J1939 Engine Source Address		0
J1939 Stop Broadcast Source Address One		0
J1939 Stop Broadcast Source Address Three		0
J1939 Stop Broadcast Source Address Two		0
Keyswitch	On	
Keyswitch Off Counts		7283
Keyswitch On Counts		7284
Low Idle Adjustment Switch	Neutral	
Malfunction Indicator Lamp Status	Off	
Net Engine Torque		-346 N*m
NOx Monitor Fail Count		25649
NOx Monitor Pass Count		18391
OEM Ambient Air Temperature		22 °C

OEM Ambient Air Temperature Sensor Signal Voltage

Parking Brake Switch State

Percent Accelerator Pedal or Lever

Percent Load

PTO Additional Switch

PTO Decrement Switch

PTO Increment Switch

PTO On/Off Switch

PTO Status

Red Stop Lamp Status

Sensor Supply 1

Sensor Supply 2

Sensor Supply 3

Sensor Supply 4

Sensor Supply 5

Sensor Supply 6

Starter Lockout Relay Command

Total Diesel Exhaust Fluid Used

Transmission Gear Ratio

Turbocharger Speed

Turbocharger Speed Derate Active

Vehicle Speed

Water In Fuel Detected Total Accumulated Time

Water In Fuel Sensor Signal Voltage

Water In Fuel State

Off

Off

Off

Off

Off

Inactive

Off

Closed

Inactive

000000:00:00

No Water Detected

3.31 V

0 Percent

0 Percent

5 V

5 V

5 V

5 V

5 V

5 V

11068.3 L

16

69906 rpm

0 km/hr

HH:MM:SS

3.1 V

Fault Information

Fault Code

CM2250

Status

ECM Time (Key On Time)

Engine Hours

Keyoffs

3575 Inactive

3569 Inactive

Count Lamp Descriptor PID SID J1587 FMI J1939 FMI SPN

010330:55:19 HHHHHH-MM:SS

010277:55:37 HHHHHH-MM:SS

7283

1 Amber Aftertreatment 1 Diesel Exhaust Fl 0 16 4334

1 Amber Aftertreatment 1 Diesel Exhaust Fl 7 7 3362

Fault Snapshot

Fault Code

CM2250

Status

Fault Parameters

ECM Time (Key On Time)

Engine Hours

Keyoffs

3575 Inactive

Engine Hours

Accelerator Interlock State

Aftertreatment Diesel Exhaust Fluid Dosing Unit State

Aftertreatment Diesel Exhaust Fluid Tank Level

Aftertreatment Diesel Exhaust Fluid Tank Temperature

Aftertreatment SCR Intake Temperature

Aftertreatment SCR Outlet Temperature

Air Conditioning Pressure Switch

Barometric Air Pressure

Battery Voltage

Brake Pedal Position Switch

Calibration Software Phase

Clutch Pedal Position Switch

Cruise Control On/Off Switch

ECM Real Time

ECM Time

Engine Coolant Temperature

Engine Oil Pressure

Engine Oil Temperature

Engine Operating State

Engine Protection Derate Suppress

Engine Protection Shutdown Override Switch

Engine Speed

Engine Speed Backup Synchronization State

Engine Speed Main Synchronization State

Engine Speed Status

Engine Torque Mode

Engine Warmup Protection Status

Exhaust Gas Temperature (Calculated)

Fan Control Switch

Fuel Rail Pressure Commanded

Fuel Rail Pressure Measured

Idle Validation Switch

Intake Manifold Air Temperature

Intake Manifold Pressure

Keyswitch

Low Idle Adjustment Switch

Low Idle Decrement Switch

Percent Accelerator Pedal or Lever

Percent Load

Remote Accelerator Pedal or Lever Switch

Remote PTO Switch

Turbocharger Compressor Outlet Air Temperature (Calculated)

Vehicle Speed

Wastegate Control Valve Command

Count Lamp Descriptor PID SID J1587 FMI J1939 FMI SPN

First Last Units

010330:55:19 HHHHHH-MM:SS

010277:55:37 HHHHHH-MM:SS

7283

1 Amber Aftertreatment 1 Diesel Exhaust Fl 0 16 4334

010067:15 010067:15 HHHHHH-MM:SS

Unlocked Unlocked

Priming Priming

36 36 Percent

27 27 °C

394 394 °C

393 393 °C

Off Off

96.8 96.8 kPa

14.1 14.1 V

Released Released

5.10E+141 5.10E+141

Released Released

Off Off

Not Applic: Not Applicable

000186:55 000186:55 HHHHHH-MM:SS

82.4 82.4 °C

246.4 246.4 kPa

102.6 102.6 °C

Maximum 1 Maximum Throttle

Disable Disable

Off Off

1559 1559 rpm

Have Syncl Have Synchronization

Have Syncl Have Synchronization

Good Good

Torque Lim Torque Limiting

Inactive Inactive

690 690 °C

On On

1602 1602 bar

1580 1580 bar

Off Idle Off Idle

43.4 43.4 °C

234.7 234.7 kPa

On On

Undefined Undefined

Off Off

100 100 Percent

100 100 Percent

Off Off

Off Off

252 252 °C

99 99 km/hr

0 0 Percent

	Water In Fuel State
3569	Inactive
	Engine Hours
	Accelerator Interlock State
	Aftertreatment Diesel Exhaust Fluid Dosing Unit State
	Aftertreatment Diesel Exhaust Fluid Tank Level
	Aftertreatment Diesel Exhaust Fluid Tank Temperature
	Aftertreatment SCR Inlet Temperature
	Aftertreatment SCR Outlet Temperature
	Air Conditioning Pressure Switch
	Barometric Air Pressure
	Battery Voltage
	Brake Pedal Position Switch
	Calibration Software Phase
	Clutch Pedal Position Switch
	Cruise Control On/Off Switch
	ECM Real Time
	ECM Time
	Engine Coolant Temperature
	Engine Oil Pressure
	Engine Oil Temperature
	Engine Operating State
	Engine Protection Derate Suppress
	Engine Protection Shutdown Override Switch
	Engine Speed
	Engine Speed Backup Synchronization State
	Engine Speed Main Synchronization State
	Engine Speed Status
	Engine Torque Mode
	Engine Warmup Protection Status
	Exhaust Gas Temperature (Calculated)
	Fan Control Switch
	Fuel Rail Pressure Commanded
	Fuel Rail Pressure Measured
	Idle Validation Switch
	Intake Manifold Air Temperature
	Intake Manifold Pressure
	Keyswitch
	Low Idle Adjustment Switch
	Low Idle Decrement Switch
	Percent Accelerator Pedal or Lever
	Percent Load
	Remote Accelerator Pedal or Lever Switch
	Remote PTO Switch
	Turbocharger Compressor Outlet Air Temperature (Calculated)
	Vehicle Speed
	Wastegate Control Valve Command
	Water In Fuel State

Audit Trail

Record Number

Engine Abuse History
Engine Oil Pressure
Engine Oil Pressure Severity 1
Engine Oil Pressure
Engine Oil Pressure Severity 2
Engine Oil Pressure
Engine Oil Pressure Severity 3
Engine Oil Pressure
Engine Oil Pressure Severity Total

Engine Speed
Engine Speed Severity 1
Engine Speed
Engine Speed Severity 2
Engine Speed
Engine Speed Severity 3
Engine Speed
Engine Speed Severity Total

No Water C No Water Detected			
1	Amber	Aftertreatment 1 Diesel Exhaust Fil	7
010067:14	010067:14	HHHHH:MM:SS	7
Unlocked	Unlocked		3362
Purging	Purging		
36	36	Percent	
27	27	°C	
398	398	°C	
389	389	°C	
Off	Off		
96.8	96.8	kPa	
14.1	14.1	V	
Released	Released		
5.10E+141	5.10E+141		
Released	Released		
Off	Off		
Not Applic: Not Applicable			
000186:54	000186:54	HHHHH:MM:SS	
81.8	81.8	°C	
244.8	244.8	kPa	
103.1	103.1	°C	
Road Spee	Road Speed	Governor State	
Disable	Disable		
Off	Off		
1570	1570	rpm	
Have Sync1	Have Synchronization		
Have Sync1	Have Synchronization		
Good	Good		
Road Spee	Road Speed	Governor	
Inactive	Inactive		
654	654	°C	
On	On		
1696	1696	bar	
1697	1697	bar	
Off Idle	Off Idle		
44.7	44.7	°C	
226.4	226.4	kPa	
On	On		
Undefined	Undefined		
Off	Off		
100	100	Percent	
93	93	Percent	
Off	Off		
Off	Off		
258	258	°C	
100	100	km/hr	
0	0	Percent	
No Water C No Water Detected			

Tool ID	User Type	User ID	ECM Time (	ECM Real Time
642901	Software	00002D78	009931:57	Not Applicable
026 - Tool Resets				
05F5E140:	Software	00002D78	009931:56	Not Applicable
027 - Reset Fault Codes				
8.09101E+	Software	00002D78	002194:40	Not Applicable
016 - Engine Brake Control				
8.09101E+	Software	00002D78	002068:06	Not Applicable
027 - Reset Fault Codes				
8.083E+11	Software	00002BFS:	000278:41	Not Applicable
016 - Engine Brake Control				
039 - Vehicle Acceleration Management				
8.083E+11	Software	00002BFS:	000277:57	Not Applicable
027 - Reset Fault Codes				
8.083E+11	Software	0000A7B1:	000140:56	Not Applicable
016 - Engine Brake Control				
027 - Reset Fault Codes				
8.083E+11	Software	00003EBF:	000063:10	Not Applicable
027 - Reset Fault Codes				

HHHHH:MM:SS
kPa
HHHHH:MM:SS
kPa
HHHHH:MM:SS
kPa
HHHHH:MM:SS
kPa

HHHHH:MM:SS
rpm
HHHHH:MM:SS
rpm
HHHHH:MM:SS
rpm
HHHHH:MM:SS
rpm

Engine Coolant Temperature	000000:00:00	HHHHHH:MM:SS
Engine Coolant Temperature Severity 1	104 - 110	°C
Engine Coolant Temperature	000000:00:00	HHHHHH:MM:SS
Engine Coolant Temperature Severity 2	110 - 118	°C
Engine Coolant Temperature	000000:00:00	HHHHHH:MM:SS
Engine Coolant Temperature Severity 3	> 118	°C
Engine Coolant Temperature	000000:00:00	HHHHHH:MM:SS
Engine Coolant Temperature Severity Total	> 104	°C
Intake Manifold Air Temperature	000000:00:00	HHHHHH:MM:SS
Intake Manifold Air Temperature Severity 1	116 - 127	°C
Intake Manifold Air Temperature	000000:00:00	HHHHHH:MM:SS
Intake Manifold Air Temperature Severity 2	127 - 138	°C
Intake Manifold Air Temperature	000000:00:00	HHHHHH:MM:SS
Intake Manifold Air Temperature Severity 3	> 138	°C
Intake Manifold Air Temperature	000000:00:00	HHHHHH:MM:SS
Intake Manifold Air Temperature Severity Total	> 116	°C
Engine Oil Temperature	000000:00:00	HHHHHH:MM:SS
Engine Oil Temperature Severity 1	113 - 118	°C
Engine Oil Temperature	000000:00:00	HHHHHH:MM:SS
Engine Oil Temperature Severity 2	118 - 125	°C
Engine Oil Temperature	000000:00:00	HHHHHH:MM:SS
Engine Oil Temperature Severity 3	> 125	°C
Engine Oil Temperature	000000:00:00	HHHHHH:MM:SS
Engine Oil Temperature Severity Total	> 113	°C
Engine Coolant Level	000000:00:24	HHHHHH:MM:SS
Engine Coolant Level Severity 1	Low	
Engine Coolant Level	000000:00:24	HHHHHH:MM:SS
Engine Coolant Level Severity Total	Low	
Engine Hours	010277:55:37	HHHHHH:MM:SS
Engine Protection		
Description	Fault Code	Occurrence Value Duration ECM Time (ECM Real Time
No data available		
Engine Protection Settings		
Engine Protection Derate Suppress	Disable	
Channel	Torque Derate	
Engine Coolant Temperature	Enable	Fault Code Derate Type Threshold Delay Before Time Base Time for Fl Time Before Lamp Flashes Because
Engine Oil Pressure	Enable	2963 Severity 107.2 °C 5 s Undefined 30 s Undefined
		143 Time rpm Oil Pressure 5 s Enable 30 s 0 s
		0 -5.0 kPa
		500 -5.0 kPa
		560 41.4 kPa
		800 55.2 kPa
		1150 124.1 kPa
		2600 193.1 kPa
Intake Manifold Air Temperature	Enable	2964 Severity 121.1 °C 5 s Undefined 30 s Undefined
Engine Oil Temperature	Enable	421 Severity 126.7 °C 5 s Undefined 30 s Undefined
Engine Coolant Level	Enable	235 Time Low 20 s Disable Undefined 25 s
Engine Protection Derate Suppress	Disable	
Channel	RPM Derate	
Engine Coolant Temperature	Enable	Fault Code Derate Type Threshold Delay Before Time Base Time for Fl Time Before Lamp Flashes Because
Engine Oil Pressure	Enable	151 Time 116.3 °C 5 s Disable 30 s 0 s
		415 Time rpm Oil Pressure 5 s Enable 30 s 0 s
		0 -5.0 kPa
		500 -5.0 kPa
		560 27.6 kPa
		800 41.4 kPa
		1150 69.0 kPa
		2600 137.9 kPa
Intake Manifold Air Temperature	Enable	155 Time 124.0 °C 5 s Disable 30 s 0 s
Engine Overspeed	Enable	234 Time 2650 rpm 0 s Undefined Undefined Undefined
Engine Protection Derate Suppress	Disable	
Channel	Severity Based Shutdown	
Engine Coolant Temperature	Enable	Threshold Time for Flashing Lamp
Intake Manifold Air Temperature	Enable	112.8 °C 30 s
Engine Oil Temperature	Enable	128.0 °C 30 s
		129.4 °C 30 s
SAE J1939 Multiplexed Fault Data		
Fault Code		Status Total ECM ECM Real T
CM2250		
285 SAE J1939 Multiplexing PGN Timeout Error		
No SAE J1939 Multiplexed Fault Data is available for display because there has been no occurrence of Fault Code 0285		
286 SAE J1939 Multiplexing Configuration Error		
No SAE J1939 Multiplexed Fault Data is available for display because there has been no occurrence of Fault Code 0286		
Anti-Theft Protection		
Passwords		
Anti Theft Status	Unlocked	
Vehicle Anti Theft	Disable	
Vehicle Anti Theft Automatic Mode	Enable	
Multi-Level ECM Security		

[illegible]

Engine Speed (RPM)		800	1200	1400	1600	1800	2100	2650
Parameter	Value	Unit						
Peak Torque at RPM		2237 N*m						
Peak Torque RPM		1200 rpm						
Advertised Power at RPM		485 hp						
Advertised Power RPM		2000 rpm						
Long Term Map Total Time	10004:38:05	HH:MM:SS						
Long Term Map Start Time		270:02:31 HH:MM:SS						

OBD Monitors
MIL ON Distance (All Faults)
MIL ON Time (All Faults)
Fault Code
OBD values are not displayed in INSITE for this engine program.

Description
Monitor Tyj Readiness Code

DM20
[Ignition_Cycle_Counter=6453, OBD_Monitoring_Conditions_Encountered=0, repeat_list=[[SPN_of_Applicable_System_Monitor=5321, Reserved=24, SPN_of_Applicable_System_Monitor_2=7, Applicable_System_Monitor_Numerator=0, Applicable_System_Monitor_Denominator=0], [SPN_of_Applicable_System_Monitor=3058, Reserved=24, SPN_of_Applicable_System_Monitor_2=7, Applicable_System_Monitor_Numerator=0, Applicable_System_Monitor_Denominator=0], [SPN_of_Applicable_System_Monitor=5318, Reserved=24, SPN_of_Applicable_System_Monitor_2=7, Applicable_System_Monitor_Numerator=0, Applicable_System_Monitor_Denominator=0], [SPN_of_Applicable_System_Monitor=3055, Reserved=24, SPN_of_Applicable_System_Monitor_2=7, Applicable_System_Monitor_Numerator=0, Applicable_System_Monitor_Denominator=0], [SPN_of_Applicable_System_Monitor=3052, Reserved=24,

DM19
[repeat_list=[[Calibration_Verification_Number=2.25044e+09, Calibration_Identification=DS10011.25]]]