

# Cat Electronic Technician 2022A v1.0

## Product Status Report

8/24/2022 9:12 AM

### Product Status Report

Parameter	Value
Engine Serial Number	MXS85820
Equipment ID	177480J
Comments	

### C15 Truck (MXS85820)

Parameter	Value
Vehicle ID	177480J
Engine Serial Number	MXS85820
ECM Serial Number	10266994JX
Personality Module Part Number	3298549-00
Personality Module Release Date	JUL08
Personality Module Code	32
ECM Date/Time	8/24/2022 11:10:12 AM

### Critical Events - C15 Truck (MXS85820)

Code	Description	Start Time	Elapsed	Extreme	Average
111-11	Very Low Coolant Level (62)	6/21/2022 8:43:37 PM	00:02:56	N/A	N/A

### Logged Diagnostic Codes [Diagnostic Clock = 6236 hours] - C15 Truck (MXS85820)

Code	Description	Occ.	First	Last
91- 8	Throttle Position Invalid (32)	1	6236	6236
100- 3	Oil Pressure voltage high (24)	1	6236	6236
102- 3	Boost Pressure voltage high (25)	1	6236	6236
105- 3	Intake Manifold Air Temperature voltage high (38)	1	6236	6236
108- 3	Barometric Pressure voltage high (26)	1	6236	6236
110- 3	Coolant Temperature voltage high (27)	1	6236	6236
284- 5	Engine Coolant Diverter current low (98)	1	6236	6236
385- 3	Intake Valve Actuation System Oil Pressure voltage high (95)	1	6236	6236

### Logged Event Codes [Diagnostic Clock = 6236 hours] - C15 Truck (MXS85820)

Code	Description	Occ.	First	Last
231-12	J1939 Device Not Responding	1	6236	6236
111- 1	Low Coolant Level Warning (62)	11	6121	6214
111-11	Very Low Coolant Level (62)	10	6121	6214

### Active Diagnostic Codes - C15 Truck (MXS85820)

Code	Description
91- 8	Throttle Position Invalid (32)
231-12	J1939 Device Not Responding
385- 3	Intake Valve Actuation System Oil Pressure voltage high (95)
110- 3	Coolant Temperature voltage high (27)
105- 3	Intake Manifold Air Temperature voltage high (38)
108- 3	Barometric Pressure voltage high (26)
102- 3	Boost Pressure voltage high (25)
100- 3	Oil Pressure voltage high (24)
284- 5	Engine Coolant Diverter current low (98)

### Current Totals - C15 Truck (MXS85820)

Description	Value	Unit
Total Time	23715:48	hours
Total PTO Time	0:00	hours
Total Idle Time	1856:57	hours
Total Distance	599970	Miles
Total Fuel	118388	gal
Total PTO Fuel	0	gal
Total Idle Fuel	1304	gal
Total Max Fuel	85273	gal
Average Load Factor	100	%
Lifetime Total Engine Revolutions	419536000	

### Configuration - C15 Truck (MXS85820)

Description	Value	Unit
Rating Number	1	
Rating Type	Standard	
Multi-Torque Ratio	Unavailable	
Advertised Power	550 hp	
Governed Speed	2100 rpm	
Rated Peak Torque	1850 lb-ft @ 1200 rpm	
Top Engine Speed Range	2120 - 2120 rpm	
Test Spec	0K5926-00	
Test Spec with BrakeSaver		
Vehicle ID	177480J	
Engine Serial Number	MXS85820	
ECM Serial Number	10266994JX	
Personality Module Part Number	3298549-00	
Personality Module Release Date	JUL08	
Total Tattletale	37	
Last Tool to Change Customer Parameters	ET572505	
Last Tool to Change System Parameters	ET675766	
ECM Wireless Communications Enable	No	
Vehicle Speed Calibration	31029	P/mile
Vehicle Speed Cal (J1939-Trans)	Unavailable	R/mile

Vehicle Speed Cal (J1939-ABS)	Unavailable	Ratio
Vehicle Speed Limit	93	mph
VSL Protection	1500	rpm
Tachometer Calibration	113.0	PPR
Soft Vehicle Speed Limit	No	
Two Speed Axle - Low Speed Range Axle Ratio	Unavailable	
Nominal Axle Ratio - High Speed Range Axle Ratio	Unavailable	
Low Cruise Control Speed Set Limit	30	mph
High Cruise Control Speed Set Limit	93	mph
Engine Retarder Mode	Latch	
Engine Retarder Minimum VSL Type	Hard Limit	
Engine Retarder Minimum Vehicle Speed	0	mph
Auto Retarder in Cruise (0 = Off)	3	mph
Auto Retarder in Cruise Increment	2	mph
Cruise/Idle/PTO Switch Configuration	Set/Accel-Res/Decel	
SoftCruise Control	Yes	
Adaptive Cruise Control Enable	Disabled	
Idle Vehicle Speed Limit	5	mph
Idle RPM Limit	1400	rpm
Idle/PTO RPM Ramp Rate	50	rpm/s
Idle/PTO Bump RPM	20	rpm
PTO Configuration	Off	
PTO Top Engine Limit	Unavailable	rpm
PTO Engine RPM Set Speed (0 = Off)	Unavailable	rpm
PTO Engine RPM Set Speed A (0 = Off)	Unavailable	rpm
PTO Engine RPM Set Speed B (0 = Off)	Unavailable	rpm
PTO to Set Speed	Unavailable	
Maximum PTO Enable Speed	Unavailable	rpm
PTO Cab Controls RPM Limit	Unavailable	
PTO Kickout Vehicle Speed Limit	Unavailable	mph
Torque Limit	Unavailable	lb-ft
PTO Shutdown Time (0 = Off)	Unavailable	min
PTO Shutdown Timer Maximum RPM	Unavailable	rpm
PTO Low Idle Shutdown Load Percentage Threshold	Unavailable	%
PTO Activates Cooling Fan	Unavailable	
Lower Gears Engine RPM Limit	1800	rpm
Lower Gears Turn Off Speed	3	mph
Intermediate Gears Engine RPM Limit	1800	rpm
Intermediate Gears Turn Off Speed	5	mph
Gear Down Protection RPM Limit	2100	rpm
Gear Down Protection Turn On Speed	127	mph
Low Idle Engine RPM	600	rpm
Transmission Style	Manual Option 1	
Eaton Top 2 Override with Cruise Switch	Unavailable	
Top Gear Ratio	0.740	

Top Gear Minus One Ratio	1.000	
Top Gear Minus Two Ratio	1.360	
Governor Type	Full Range	
Idle Shutdown Time (0 = Off)	0	min
Idle Shutdown Timer Maximum RPM	2120	rpm
Allow Idle Shutdown Override	Yes	
Minimum Idle Shutdown Outside Temperature	Not Installed	Deg F
Maximum Idle Shutdown Outside Temperature	Not Installed	Deg F
A/C Switch Fan On-Time (0 = Off)	60	sec
Fan with Engine Retarder in High Mode	No	
Engine Retarder Delay	0.0	sec
Battery Monitor and Engine Control Voltage	0.0	Volts
Engine Monitoring Mode	Warning	
Engine Monitoring Lamps	Warning Lamp	
Coolant Level Sensor	4-pin	
Maintenance Indicator Mode	Off	
PM1 Interval	0	Miles
Engine Oil Capacity	40	quarts
Fuel Correction Factor	0	%
Dash - Change Fuel Correction Factor	No	
Dash - PM1 Reset	No	
Dash - Fleet Trip Reset	No	
Dash - State Selection	Yes	
Theft Deterrent System Control	No	
Theft Deterrent Password	*****	
Quick Stop Rate	0	mph/s
Vehicle Overspeed Threshold	127	mph
Minimum Idle Time (0 = Off)	0	min
Driver Reward Enable	Disabled	
Fan Override Switch	J1/P1:7	
Transmission Neutral Switch	None	
Ignore Brake/Clutch Switch	Unavailable	
Torque Limit Switch	Unavailable	
Diagnostic Enable Switch	None	
PTO On/Off Switch	Unavailable	
Remote PTO Set Switch	Unavailable	
Remote PTO Resume Switch	Unavailable	
PTO Engine RPM Set Speed Input A	Unavailable	
PTO Engine RPM Set Speed Input B	Unavailable	
Starting Aid On/Off Switch	None	
Two Speed Axle Switch	None	
Cruise Control On/Off Switch	J1/P1:59	
Cruise Control Set/Resume/Accel/Decel Switch	J1/P1:35 & 44	
Cruise Control Pause Switch	None	
Clutch Pedal Position Switch	J1/P1:22	

Retarder Off/Low/Med/High Switch	J1/P1:23 & 40	
Service Brake Pedal Position Switch #1	J1939 - Cab Controller	
Accelerator Pedal Position	J1/P1:66	
Vehicle Speed Input	J1/P1:32 & 33	
Stationary Park Brake Input Configuration	J1939 - Cab Controller	
Engine Running Output	None	
Engine Shutdown Output	None	
Auxiliary Brake	None	
Starting Aid Output	None	
Fan Control Type	On/Off DC	
Engine Retarder Maximum Setting	High	
PTO Active Output	Unavailable	
Customer Password #1	*****	
Customer Password #2	*****	
Powertrain Data Link	J1939	
Personality Module Code	32	
FLS	31	
FTS	-56	

#### Total Time vs Vehicle Speed - C15 Truck (MXS85820)

Vehicle Speed( mph )	hours	%
0-4	285.15	6.59
5-9	329.85	7.63
10-14	261.90	6.06
15-19	213.35	4.93
20-24	215.25	4.98
25-29	218.00	5.04
30-34	209.55	4.85
35-39	179.05	4.14
40-44	162.90	3.77
45-49	165.40	3.83
50-54	214.45	4.96
55-59	365.00	8.44
60-64	570.50	13.19
65-69	579.80	13.41
70-74	313.90	7.26
75-79	40.00	0.93

#### Total Time vs Engine Speed - C15 Truck (MXS85820)

Engine Speed( rpm )	hours	%
0-599	91.95	2.13
600-699	130.65	3.02
700-799	72.80	1.68
800-899	118.90	2.75
900-999	191.30	4.42
1000-1099	297.05	6.87
1100-1199	388.05	8.97
1200-1299	444.45	10.28

1300-1399	508.50	11.76
1400-1499	597.75	13.82
1500-1599	630.00	14.57
1600-1699	537.80	12.44
1700-1799	252.30	5.83
1800-1899	51.75	1.20
1900-1999	8.80	0.20
2000-2099	1.55	0.04
2100-2199	0.40	0.01
2200-2299	0.05	0.00
2300-2399	0.00	0.00
2400-2499	0.00	0.00
2500-2599	0.00	0.00
2600-2699	0.00	0.00

**Total Time vs Engine Speed And Vehicle Speed - C15 Truck (MXS85820)**

rpm	0-599	600-699	700-799	800-899	900-999	1000-1099	1100-1199	1200-1299	1300-1399
mph									
0-4	48.65	74.85	27.00	27.30	32.55	22.10	17.55	14.30	10.80
5-9	16.55	23.60	23.20	30.05	34.45	60.30	48.00	39.60	28.20
10-14	12.30	14.40	10.75	31.10	33.25	38.15	52.65	29.40	14.15
15-19	6.45	7.35	5.65	11.85	26.45	37.35	38.85	18.20	23.25
20-24	3.70	4.20	2.55	4.35	25.05	44.40	10.15	46.30	39.70
25-29	2.30	2.90	0.75	7.00	11.95	3.30	63.75	73.50	15.60
30-34	1.00	1.65	2.25	2.15	9.20	45.20	20.10	1.60	53.60
35-39	0.50	0.75	0.25	4.75	8.60	0.75	48.80	69.90	1.50
40-44	0.20	0.35	0.10	0.10	9.50	33.40	0.85	6.70	70.05
45-49	0.10	0.15	0.05	0.00	0.05	11.80	85.05	3.95	0.80
50-54	0.00	0.05	0.00	0.00	0.00	0.00	1.95	140.60	44.80
55-59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	205.80
60-64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65-69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70-74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75-79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	91.75	130.25	72.55	118.65	191.05	296.75	387.70	444.15	508.25

**Total Time vs Engine Speed And Vehicle Speed - C15 Truck (MXS85820)**

rpm	1400-1499	1500-1599	1600-1699	1700-1799	1800-1899	1900-1999	2000-2099	2100-2199	2200-2299
mph									
0-4	6.70	2.80	0.20	0.05	0.00	0.00	0.00	0.00	0.00
5-9	16.45	4.15	2.90	1.30	0.50	0.20	0.05	0.00	0.00
10-14	8.15	9.95	4.55	1.50	0.65	0.30	0.10	0.05	0.00
15-19	18.75	12.00	4.35	1.40	0.60	0.25	0.10	0.00	0.00
20-24	24.70	0.60	3.15	3.40	1.75	0.75	0.15	0.00	0.00
25-29	5.00	17.55	9.80	4.15	0.00	0.00	0.05	0.05	0.00
30-34	52.20	15.70	0.30	0.85	2.25	0.90	0.20	0.00	0.00

35-39	0.95	17.75	18.15	6.00	0.00	0.00	0.00	0.05	0.00
40-44	33.05	0.40	0.35	2.75	3.60	1.10	0.00	0.00	0.00
45-49	22.55	35.30	4.65	0.05	0.05	0.15	0.30	0.05	0.00
50-54	0.50	0.55	16.75	8.80	0.00	0.00	0.00	0.00	0.00
55-59	152.25	0.20	0.20	1.60	3.90	0.60	0.00	0.00	0.00
60-64	256.30	313.40	0.00	0.00	0.00	0.35	0.10	0.00	0.00
65-69	0.00	199.30	380.35	0.05	0.00	0.00	0.00	0.00	0.00
70-74	0.00	0.00	91.70	219.85	2.35	0.00	0.00	0.00	0.00
75-79	0.00	0.00	0.00	0.15	35.70	3.90	0.15	0.00	0.00
Total	597.55	629.65	537.40	251.90	51.35	8.50	1.20	0.20	0.00

### Total Time vs Engine Speed And Vehicle Speed - C15 Truck (MXS85820)

rpm	2300-2399	2400-2499	2500-2599	2600-2699	Total
mph					
0-4	0.00	0.00	0.00	0.00	284.85
5-9	0.00	0.00	0.00	0.00	329.50
10-14	0.00	0.00	0.00	0.00	261.40
15-19	0.00	0.00	0.00	0.00	212.85
20-24	0.00	0.00	0.00	0.00	214.90
25-29	0.00	0.00	0.00	0.00	217.65
30-34	0.00	0.00	0.00	0.00	209.15
35-39	0.00	0.00	0.00	0.00	178.70
40-44	0.00	0.00	0.00	0.00	162.50
45-49	0.00	0.00	0.00	0.00	165.05
50-54	0.00	0.00	0.00	0.00	214.00
55-59	0.00	0.00	0.00	0.00	364.65
60-64	0.00	0.00	0.00	0.00	570.15
65-69	0.00	0.00	0.00	0.00	579.70
70-74	0.00	0.00	0.00	0.00	313.90
75-79	0.00	0.00	0.00	0.00	39.90
Total	0.00	0.00	0.00	0.00	4318.85

### Injector Trim Calibration - C15 Truck (MXS85820)

Injector	Serial Number	File Version
Injector1	00A55241433138	0
Injector2	00A552414293DF	0
Injector3	00A55241432323	0
Injector4	00A5524143435D	0
Injector5	00A55241436179	0
Injector6	00A5524143496B	0

### Trip Segment - Driver - C15 Truck (MXS85820)

Description	Value	Unit
Time	23715:48	hours
Driving Time	21858:51	hours
Distance	599969.8	Miles
Fuel	118387.6	gal
Overall Fuel Economy	5.07	MPG

Driving Fuel Economy	5.12	MPG
Idle Time	1856:56	hours
Idle Fuel	1304.4	gal
% Idle Time	8	%
PTO Time	0:00	hours
PTO Fuel	0.0	gal
% PTO Time	0	%
Avg Load Factor	139	%
Avg Vehicle Speed	25.3	mph
Avg Driving Speed	27.4	mph
Max Vehicle Speed	89	mph
Max Engine Speed	2524	rpm
Start Time	0:00	hours
End Time	23715:48	hours
Start Odometer	0.0	Miles
End Odometer	599969.8	Miles

#### Trip Segment - Fleet - C15 Truck (MXS85820)

Description	Value	Unit
Time	23715:48	hours
Driving Time	21858:51	hours
Distance	599969.8	Miles
Fuel	118387.6	gal
Overall Fuel Economy	5.07	MPG
Driving Fuel Economy	5.12	MPG
Idle Time	1856:56	hours
Idle Fuel	1304.4	gal
% Idle Time	8	%
PTO Time	0:00	hours
PTO Fuel	0.0	gal
% PTO Time	0	%
Avg Load Factor	139	%
Avg Vehicle Speed	25.3	mph
Avg Driving Speed	27.4	mph
Max Vehicle Speed	89	mph
Max Engine Speed	2524	rpm
Start Time	0:00	hours
End Time	23715:48	hours
Start Odometer	0.0	Miles
End Odometer	599969.8	Miles

#### Maintenance Indicator - C15 Truck (MXS85820)

Description	Service Status	Value	Unit
PM1	---	Unavailable	Miles
PM2	---	Unavailable	Miles
Coolant Flush/Fill	---	Unavailable	Miles