Cat Electronic Technician 2022A v1.0

Product Status Report

01/11/2023 13:11

Product Status Report

Parameter	Value
Product ID	XCJ20550
Equipment ID	XCJ20550
Comments	

Product Link Elite (XCJ20550)

Parameter	Value
Product ID	XCJ20550
Machine Serial Number	
Equipment ID	XCJ20550
ECM Part Number	4590786-04
ECM Serial Number	2730F019TR
Software Group Part Number	6306318-00
Software Group Release Date	Aug2022
Software Group Description	VIMS_TELEMATICS_2022_08_11
Application Software Part Number	5646898-00
Cellular Device ECM Serial Number	3290S627YN
Cellular Device ECM Hardware Part Number	5555510-06
Cellular Radio Module Software Part Number	6279042-00
Satellite Device ECM Serial Number	NA
Satellite Device ECM Hardware Part Number	NA
Satellite Radio Module Software Part Number	NA
Wi-Fi Radio Hardware Serial Number	NA
Wi-Fi Radio Hardware Part Number	NA
Wi-Fi Radio Software Part Number	NA

Logged Diagnostic Codes [Total Operating Hours = 7694 hours] - Product Link Elite (XCJ20550)

Code	Description	Occ.	First	Last
1250- 9	Remote Communication Module : Abnormal Update Rate	1	7686	7686

Logged Event Codes [Total Operating Hours = 7694 hours] - Product Link Elite (XCJ20550)

Code	Description	Occ.	First	Last
No Logged Event Codes				

Active Diagnostic Codes - Product Link Elite (XCJ20550)

Code	Description

No Active Diagnostic Codes	

Active Event Codes - Product Link Elite (XCJ20550)

Code	Description
No Active Events	

Current Totals - Product Link Elite (XCJ20550)

Description	Value	Unit
Total Operating Hours	7694.1	hours
Total Distance	28797.20	km

Configuration - Product Link Elite (XCJ20550)

Description	Value	Unit
Product ID	XCJ20550	
Equipment ID	XCJ20550	
CAT Data Link Module Identifier Configuration	Gateway #1	
Machine Serial Number		
Maintenance Mode	Off	
Security System Tamper Resistant Configuration	Not Installed	
External Service Lamp Installation Configuration	Installed	
External Service Lamp Display Mode Setting	No Snapshot Notice	
GPS Surge Suppression Antenna Installation Status	Not Installed	
Cellular Surge Suppression Antenna Installation Status	Not Installed	
Telemetry Feature Installation Status	Not Installed	
Telemetry Feature Enable Status	Disabled	
Tire Monitoring System Installation Status	Unavailable	
Mining Aftermarket System Installation Status	Unavailable	
Production Measurement Feature Installation Status	Unavailable	
Telematics Enhanced Data Connector Installation Status	Unavailable	
Telematics Enhanced Data Connector Enable Status	Unavailable	
Telematics Enhanced Data Connector Temporary Installation Status	Unavailable	
Telematics Enhanced Data Connector Temporary Installation Time Remaining	Unavailable	min
Driver Safety System Installation Status	Unavailable	
Driver Safety System Enable Status	Unavailable	
Driver Safety System Temporary Installation Status	Unavailable	

Driver Safety System Temporary Installation Time Remaining	Unavailable	min

Indication Display

Parameter	Value
ECM Part Number	3743614-08
ECM Serial Number	3370D011DT
Software Group Part Number	5962842-00
Software Group Release Date	APR2020
Software Group Description	Indication Display

C7.1 950 (J7A09791)

Parameter	Value
Equipment ID	
Engine Serial Number	J7A09791
ECM Part Number	5210791-04
ECM Serial Number	20071400402R001M
Software Group Part Number	6308794-00
Software Group Release Date	JUN22
Software Group Description	950/962 MWL HRC BU2019 A6
Calibration Identification Number	AN456_08
Operator Inducement Regulation Configuration	Worldwide

Logged Diagnostic Codes [Diagnostic Clock = 7694 hours] - C7.1 950 (J7A09791)

Code	Description	Occ.	First	Last
3111- 5	Aftertreatment #1 DEF Line Heater #2 : Current Below Normal	145	6424	7692
5856- 9	SAE J1939 Data Link #3 : Abnormal Update Rate	37	7661	7686

Logged Event Codes [Diagnostic Clock = 7694 hours] - C7.1 950 (J7A09791)

Code	Description	Occ.	First	Last
E1389 (1)	Aftertreatment #1 SCR Operator Inducement	50	7661	7692
E1389 (2)	Aftertreatment #1 SCR Operator Inducement	14	7661	7673
E1389 (3)	Aftertreatment #1 SCR Operator Inducement	7	7662	7673
E583 (1)	High Engine Air Filter #1 Differential Pressure	1	7655	7655

Active Diagnostic Codes - C7.1 950 (J7A09791)

Code	Description
No Active Diagnostic Codes	

Active Event Codes - C7.1 950 (J7A09791)

Code	Description
No Active Events	

System Communication Status - Active Problems - C7.1 950 (J7A09791)

ECMs	Detected Problem	Data Link	Diagnostic Information

System Communication Status - Inactive Problems - C7.1 950 (J7A09791)

ECMs	Detected Problem	Data Link	Diagnostic Information
Device 1: C7.1 950 (J7A09791) - Device 2: Aftertreatment #1 Intake #1 NOx	Device #1 is unable to communicate with Device #2 on the data link.	J1939 #3	Diagnostic Code: 5856-9 - Service Hour Meter: 7686:47:52 -
Device 1: C7.1 950 (J7A09791) - Device 2: Aftertreatment #1 Intake #1 NOx	Device #1 is unable to communicate with Device #2 on the data link.	J1939 #3	Diagnostic Code: 5856-9 - Service Hour Meter: 7686:57:31 -

Current Totals - C7.1 950 (J7A09791)

Description	Value	Unit
Total Idle Time	2665:06	hours
Total Fuel	94606	L
Total Engine #1 Fuel	94396	L
Total ARD Fuel	210.375	L
Total Idle Fuel	7782	L
Total Max Fuel	382420	L
Aftertreatment #1 Total DEF Used	2615.6	L
Engine Lifetime Hours	7879.8	hours
Average Load Factor	23	%
Engine Starts	13892	
Lifetime Total Engine Revolutions	530305652	rev
Total Operating Hours	7694	hours
Operator Inducement Emergency Override Total Activations	0	
Operator Inducement Emergency Override Total Resets	0	
Total Engine Idle Shutdown Count	2206	
Total Engine Idle Shutdown Overrides Count	11146	
Total Delayed Engine Shutdown Count	133	
Total Delayed Engine Shutdown Overrides Count	10	
Starts/Hour	1.76	
Average RPM	1121.65	rpm
Percentage Idle Time	33.82	%
Average Fuel Rate	12.01	L/h
Overall Load Factor	24	%

Configuration - C7.1 950 (J7A09791)

Description	Value	Unit
Equipment ID		
Engine Serial Number	J7A09791	

ECM Part Number	5210791-04	
ECM Serial Number	20071400402R001M	
Software Group Part Number	6308794-00	
Software Group Release Date	JUN22	
Software Group Description	950/962 MWL HRC BU2019 A6	
Rating Number	1	
Rated Power	185 kW at 2200 rpm	
Rated Peak Torque	1231 N-m at 1300 rpm	
Ether Solenoid Configuration	Not Installed	
Glow Plug Start Aid Installation Status	Installed	
Low System Battery Voltage Elevated Idle	Enabled	
Engine Warm Up Elevated Idle Feature Enable Status	Enabled	
Machine Working Engine Low Idle Speed Configuration	800.0	rpm
Machine Hibernating Engine Low Idle Speed Configuration	700.0	rpm
Engine Idle Shutdown Enable Status	Disabled	
Engine Idle Shutdown Delay Time	3.0	min
Delayed Engine Shutdown Enable Status	Enabled	
Delayed Engine Shutdown Maximum Time	15.0	min
Engine Fan Reversing Feature	Enabled	
Engine Fan Purge Cycle Interval	1200	sec
Engine Fan Purge Cycle Duration	25.0	sec
Cold Engine Parasitic Load Reduction Installation	Not Installed	
Factory Installed Aftertreatment #1 Identification Number	FBH288030B	
DPF #1 Soot Loading Sensing System Configuration Code	JD	
Operator Inducement Progress Configuration	Reduced Performance	
Operator Inducement Regulation Configuration	Worldwide	
Operator Inducement Emergency Override Enable Status	Disabled	
Operator Inducement Emergency Override Activation	Not Activated	
Operator Final Inducement Action	Shutdown	
FLS	19	
FTS	-33	
CAN Communication Protocol Write Security	Seed and Key Access	
CAN Communication Protocol Read Security	Seed and Key Access	
Total Tattletale	11	

Additional Information - C7.1 950 (J7A09791)

Description	Value	Unit
EGR Valve Maximum Position Calibration Value	1.3371	Ratio

EGR Valve Minimum Position Calibration Value	0.2174	Ratio
Engine Exhaust Back Pressure Regulator Maximum Position Calibration Value	0.8603	Ratio
Engine Exhaust Back Pressure Regulator Minimum Position Calibration Value	0.1416	Ratio
Total EGR Valve Cycles	6681481	
Total EGR Valve Travel	4462724	mm
Total Engine Exhaust Back Pressure Regulator Cycles	34570	
Total Engine Exhaust Back Pressure Regulator Rotation	1000960	Deg

Lifetime:Accumulated Time vs Atmospheric Pressure - C7.1 950 (J7A09791)

Atmospheric Pressure(kPa)	hours	%
<55.00	1.30	0.02
55.00-59.99	0.00	0.00
60.00-64.99	0.00	0.00
65.00-69.99	0.00	0.00
70.00-74.99	0.00	0.00
75.00-79.99	0.00	0.00
80.00-84.99	0.00	0.00
85.00-89.99	0.00	0.00
90.00-94.99	0.00	0.00
95.00-99.99	2573.95	34.25
100.00-104.99	4938.85	65.73
105.00-109.99	0.00	0.00
110.00-115.00	0.00	0.00
>115.00	0.00	0.00

Lifetime:Accumulated Time vs Engine Coolant Temperature - C7.1 950 (J7A09791)

Engine Coolant Temperature(Deg C)	hours	%
<40.00	28.25	0.38
40.00-49.99	23.20	0.31
50.00-59.99	35.65	0.47
60.00-69.99	58.80	0.78
70.00-79.99	738.05	9.82
80.00-89.99	6594.10	87.76
90.00-99.99	36.00	0.48
100.00-109.99	0.00	0.00
110.00-119.99	0.00	0.00
120.00-129.99	0.00	0.00
130.00-140.00	0.00	0.00
>140.00	0.00	0.00

Engine Overspeed Histogram: Accumulated Time (sec) vs Engine Speed - C7.1 950 (J7A09791)

Engine Speed(rpm)	Count	%
<2600.0	40	100.00
2600.0-2699.9	0	0.00

2700.0-2799.9	0	0.00
2800.0-2899.9	0	0.00
2900.0-2999.9	0	0.00
3000.0-3099.9	0	0.00
3100.0-3199.9	0	0.00
3200.0-3299.9	0	0.00
3300.0-3400.0	0	0.00
>3400.0	0	0.00

Lifetime:Accumulated Time vs Engine Speed And Percent Engine Load at Current Engine Speed - C7.1 950 (J7A09791)

rpm	<800.0	800.0-899.9	900.0-999.9	1000.0-1099.9	1100.0-1199.9	1200.0-1299.9	1300.0-1399.9	1400.0-1499.9	1500.0-1599.9
%									
<10.0	970.30	679.95	80.15	76.95	72.80	71.60	64.45	54.80	42.85
10.0-19.9	982.65	484.45	56.05	47.80	49.40	51.85	49.20	42.45	29.60
20.0-29.9	127.90	113.70	49.95	49.90	57.30	66.95	71.45	65.70	51.30
30.0-39.9	58.20	58.55	34.75	35.05	40.70	47.30	55.80	70.75	70.40
40.0-49.9	42.65	40.05	24.80	25.20	29.65	33.05	38.00	49.55	61.20
50.0-59.9	24.85	21.95	17.45	22.40	29.25	34.90	36.20	40.20	46.70
60.0-69.9	15.60	16.45	18.90	20.20	20.80	21.75	24.70	31.40	37.30
70.0-79.9	17.60	9.45	7.30	5.45	5.35	5.60	8.95	15.30	24.10
80.0-90.0	7.85	2.00	1.55	1.20	1.15	1.10	1.85	6.35	20.65
>90.0	1.70	0.45	0.35	0.30	0.35	0.60	0.95	3.90	15.15
Total	2249.30	1427.00	291.25	284.45	306.75	334.70	351.55	380.40	399.25

Lifetime:Accumulated Time vs Engine Speed And Percent Engine Load at Current Engine Speed - C7.1 950 (J7A09791)

rpm	1600.0-1699.9	1700.0-1799.9	1800.0-1899.9	1900.0-1999.9	2000.0-2099.9	2100.0-2199.9	2200.0-2299.9	2300.0-2399.9	2400.0-2499.9
%									
<10.0	31.80	21.20	12.70	7.70	4.35	2.55	1.55	0.55	0.05
10.0-19.9	19.95	13.25	7.30	4.00	2.30	1.20	0.65	0.35	0.05
20.0-29.9	31.50	19.35	11.25	5.55	3.35	2.05	1.40	1.25	0.05
30.0-39.9	48.60	30.75	15.45	7.05	3.70	2.05	1.65	5.10	0.10
40.0-49.9	60.15	42.35	22.05	10.15	4.65	2.40	1.50	4.80	0.15
50.0-59.9	45.35	44.00	31.20	14.45	6.25	2.95	1.85	4.25	0.20
60.0-69.9	34.20	33.90	31.15	19.70	8.65	3.85	3.30	3.90	0.20

70.0-79.9	30.45	31.30	31.60	32.25	16.75	7.70	5.15	3.85	0.15
80.0-90.0	53.15	73.35	75.00	69.05	86.85	18.95	2.10	2.70	0.15
>90.0	22.25	29.75	41.95	46.00	43.40	5.15	0.80	0.45	0.15
Total	377.40	339.20	279.65	215.90	180.25	48.85	19.95	27.20	1.25

Lifetime:Accumulated Time vs Engine Speed And Percent Engine Load at Current Engine Speed - C7.1 950 (J7A09791)

rpm	2500.0-2599.9	2600.0-2699.9	2700.0-2799.9	2800.0-2899.9	2900.0-3000.0	>3000.0	Total
%							
<10.0	0.00	0.00	0.00	0.00	0.00	0.00	2196.30
10.0-19.9	0.00	0.00	0.00	0.00	0.00	0.00	1842.50
20.0-29.9	0.00	0.00	0.00	0.00	0.00	0.00	729.90
30.0-39.9	0.00	0.00	0.00	0.00	0.00	0.00	585.95
40.0-49.9	0.00	0.00	0.00	0.00	0.00	0.00	492.35
50.0-59.9	0.00	0.00	0.00	0.00	0.00	0.00	424.40
60.0-69.9	0.00	0.00	0.00	0.00	0.00	0.00	345.95
70.0-79.9	0.00	0.00	0.00	0.00	0.00	0.00	258.30
80.0-90.0	0.00	0.00	0.00	0.00	0.00	0.00	425.00
>90.0	0.00	0.00	0.00	0.00	0.00	0.00	213.65
Total	0.00	0.00	0.00	0.00	0.00	0.00	7514.30

Lifetime:Accumulated Time vs Intake Manifold Air Temperature - C7.1 950 (J7A09791)

Intake Manifold Air Temperature(Deg C)	hours	%
<20.00	317.95	4.23
20.00-29.99	1711.20	22.77
30.00-39.99	3065.80	40.80
40.00-49.99	1755.75	23.37
50.00-59.99	639.15	8.51
60.00-69.99	23.45	0.31
70.00-79.99	0.25	0.00
80.00-89.99	0.00	0.00
90.00-99.99	0.00	0.00
100.00-109.99	0.00	0.00
110.00-119.99	0.00	0.00
120.00-129.99	0.00	0.00
130.00-139.99	0.00	0.00
140.00-149.99	0.00	0.00
150.00-159.99	0.00	0.00
160.00-169.99	0.00	0.00
170.00-179.99	0.00	0.00
180.00-189.99	0.00	0.00
190.00-199.99	0.00	0.00
200.00-209.99	0.00	0.00
210.00-219.99	0.00	0.00
220.00-229.99	0.00	0.00

230.00-240.00	0.00	0.00
>240.00	0.00	0.00

Lifetime:Accumulated Time vs Air Inlet Temperature - C7.1 950 (J7A09791)

Air Inlet Temperature(Deg C)	hours	%
<(-20.00)	1.30	0.02
(-20.00)-(-15.01)	0.00	0.00
(-15.00)-(-10.01)	0.00	0.00
(-10.00)-(-5.01)	0.00	0.00
(-5.00)-(-0.01)	5.90	0.08
0.00-4.99	52.95	0.70
5.00-9.99	344.45	4.58
10.00-14.99	1079.60	14.37
15.00-19.99	1912.95	25.46
20.00-24.99	1894.00	25.21
25.00-29.99	1439.05	19.15
30.00-34.99	558.60	7.43
35.00-39.99	181.80	2.42
40.00-44.99	30.90	0.41
45.00-49.99	3.30	0.04
50.00-54.99	1.95	0.03
55.00-59.99	1.70	0.02
60.00-64.99	1.50	0.02
65.00-69.99	2.45	0.03
70.00-74.99	1.00	0.01
75.00-80.00	0.15	0.00
>80.00	0.00	0.00

Lifetime:Accumulated Time vs Calculated Ambient Air Temperature And Aftertreatment #1 DEF Tank Temperature - C7.1 950 (J7A09791)

Deg C	<(-8.00)	(-8.00)-(-0.01)	0.00-9.99	10.00-19.99	20.00-29.99	30.00-40.00	>40.00	Total
Deg C								
<(-8.00)	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.70
(-8.00)-(-0.01)	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05
0.00-9.99	0.00	0.30	5.35	16.40	29.70	15.65	1.60	69.00
10.00-19.99	0.00	13.70	495.25	856.95	43.30	6.35	1.85	1417.40
20.00-29.99	0.05	4.30	106.20	1326.45	823.05	57.05	7.80	2324.90
30.00-39.99	0.00	0.00	0.05	8.00	183.65	81.45	1.35	274.50
40.00-49.99	0.00	0.00	0.00	0.00	0.05	0.20	0.00	0.25
50.00-59.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00-69.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

70.00-75.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>75.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.75	18.35	606.85	2207.80	1079.75	160.70	12.60	4086.80

Monitoring System - C7.1 950 (J7A09791)

High Fuel/Water Separator Water Level

232-1 High Fuel/Water Separator Water Level (Always On)

Description		Value		Delay Time
Activation Thresholds				
Water In Fuel Indicator				15 sec

Action	Parameter		Value
Warn Operator			

232-2 High Fuel/Water Separator Water Level (Always On)

Description		Value		Delay Time
Activation Thresholds				
Water In Fuel Indicator				1800 sec

Action	Parameter		Value
Engine Derate			

Low Engine Oil Pressure

360-1 Low Engine Oil Pressure (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		15 sec		
Activation Thresholds				
Engine Oil Pressure				720 kPa-sec

Action	Parameter		Value
Warn Operator			

360-2 Low Engine Oil Pressure (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		15 sec		

Activation Thresholds				
Engine Oil Pressure				360 kPa-sec

Action	Parameter		Value
Engine Derate			

360-3 Low Engine Oil Pressure (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		15 sec		
Activation Thresholds				
Engine Oil Pressure				360 kPa-sec

Action	Parameter		Value

High Engine Coolant Temperature

361-1 High Engine Coolant Temperature (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		185 sec		
Activation Thresholds				
Engine Coolant Temperature		109 Deg C		10 sec
Deactivation Conditions				
Hysteresis		2 Deg C		4 sec

Action	Parameter		Value
Warn Operator			

361-2 High Engine Coolant Temperature (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		185 sec		
Activation Thresholds				
Engine Coolant Temperature		111 Deg C		10 sec
Deactivation Conditions				
Hysteresis		2 Deg C		20 sec

Action	Parameter		Value
Engine Derate			

361-3 High Engine Coolant Temperature (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		185 sec		
Activation Thresholds				
Engine Coolant Temperature		114 Deg C		10 sec
Deactivation Conditions				
Hysteresis		2 Deg C		20 sec
Latched		No		

Action	Parameter		Value

Engine Overspeed

362-1 Engine Overspeed (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		0 sec		
Activation Thresholds				
Engine Speed		3000 rpm		0.6 sec
Deactivation Conditions				
Hysteresis		200 rpm		0.6 sec

Action	Parameter		Value
Warn Operator			

362-3 Engine Overspeed (Off)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		0 sec		
Activation Thresholds				
Engine Speed		3000 rpm		1.0 sec
Deactivation Conditions				
Hysteresis		0 rpm		0.1 sec
Latched		Yes		

Action	Parameter		Value

High Intake Manifold Air Temperature

539-1 High Intake Manifold Air Temperature (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		180 sec		
Activation Thresholds				
Intake Manifold Air Temperature		123 Deg C		8 sec
Deactivation Conditions				
Hysteresis		1 Deg C		4 sec

Action	Parameter		Value
Warn Operator			

539-2 High Intake Manifold Air Temperature (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		180 sec		
Activation Thresholds				
Intake Manifold Air Temperature		125 Deg C		8 sec
Deactivation Conditions				
Hysteresis		1 Deg C		20 sec

Action	Parameter		Value
Engine Derate			

539-3 High Intake Manifold Air Temperature (Off)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		180 sec		
Activation Thresholds				
Intake Manifold Air Temperature		125 Deg C		8 sec
Deactivation Conditions				
Hysteresis		1 Deg C		20 sec
Latched		No		

Action	Parameter		Value

High Engine Air Filter #1 Differential Pressure

583-1 High Engine Air Filter #1 Differential Pressure (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		240 sec		
Activation Thresholds				
Engine Air Filter Differential Pressure		6.5 kPa		50 kPa-sec
Deactivation Conditions				
Latched		Yes		
Hysteresis		0.5 kPa		25 kPa-sec

Action	Parameter		Value
Warn Operator			

583-2 High Engine Air Filter #1 Differential Pressure (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		240 sec		
Activation Thresholds				
Engine Air Filter Differential Pressure		6.5 kPa		100 kPa-sec
Deactivation Conditions				
Latched		Yes		

Action	Parameter		Value
Engine Derate			

High EGR Temperature

1092-1 High EGR Temperature (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		180 sec		
Activation Thresholds				
EGR Temperature		178 Deg C		8 sec
Deactivation Conditions				

Hysteresis		1 Deg C		4 sec

Action	Parameter		Value
Warn Operator			

1092-2 High EGR Temperature (Always On)

Description		Value		Delay Time
Enable Conditions				
Engine Run Time		180 sec		
Activation Thresholds				
EGR Temperature		180 Deg C		8 sec
Deactivation Conditions				
Hysteresis		1 Deg C		4 sec

Action	Parameter		Value
Engine Derate			

Injector Codes Calibration - C7.1 950 (J7A09791)

Injector	Code
Injector 1	73051A0012FFF0001309FB0000FF87
Injector 2	7303121008F9F60900F7020000FFB9
Injector 3	73FB121208FFE0031610040000FFA1
Injector 4	730721161F16070C0C1C180000FF08
Injector 5	73FF0D1122212B0F2532440000FF12
Injector 6	73051F0C20150A051718080000FFBF

Aftertreatment Abnormal Shutdown History - C7.1 950 (J7A09791)

Engine Shutdown Type	Engine Shutdown Service Hours	Temperature Threshold	Ambient Air Temperature	Aftertreatment #1 DEF Tank Temperature	Aftertreatment #1 SCR Catalyst Intake Gas Temperature
Hot Shutdown (Above SCR Intake Temperature Threshold)	6774.21 hours	370.0 Deg C	18.1 Deg C	21.0 Deg C	209.3 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	5802.37 hours	370.0 Deg C	14.9 Deg C	23.0 Deg C	227.3 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	5479.51 hours	370.0 Deg C	21.1 Deg C	22.0 Deg C	317.0 Deg C

Hot Shutdown (Above SCR Intake Temperature Threshold)	3177.15 hours	370.0 Deg C	25.1 Deg C	27.0 Deg C	377.6 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	2939.75 hours	370.0 Deg C	27.8 Deg C	33.0 Deg C	469.1 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	2861.07 hours	370.0 Deg C	19.1 Deg C	23.0 Deg C	439.0 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	2702.17 hours	370.0 Deg C	23.3 Deg C	23.0 Deg C	477.4 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	2623.15 hours	370.0 Deg C	20.8 Deg C	23.0 Deg C	459.5 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	2543.94 hours	370.0 Deg C	20.9 Deg C	26.0 Deg C	438.9 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	2464.42 hours	370.0 Deg C	12.7 Deg C	18.0 Deg C	398.4 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	2385.53 hours	370.0 Deg C	20.3 Deg C	30.0 Deg C	476.4 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	2384.73 hours	370.0 Deg C	23.3 Deg C	36.0 Deg C	427.1 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	2225.23 hours	370.0 Deg C	14.6 Deg C	23.0 Deg C	446.1 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	2224.26 hours	370.0 Deg C	16.5 Deg C	23.0 Deg C	444.2 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	2144.31 hours	370.0 Deg C	18.0 Deg C	24.0 Deg C	407.1 Deg C

Hot Shutdown (Above SCR Intake Temperature Threshold)	1987.02 hours	370.0 Deg C	16.6 Deg C	23.0 Deg C	443.0 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	1986.79 hours	370.0 Deg C	17.1 Deg C	24.0 Deg C	491.5 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	1986.32 hours	370.0 Deg C	15.0 Deg C	23.0 Deg C	433.1 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	1906.85 hours	370.0 Deg C	9.1 Deg C	18.0 Deg C	454.8 Deg C
Hot Shutdown (Above SCR Intake Temperature Threshold)	1751.45 hours	370.0 Deg C	1.9 Deg C	14.0 Deg C	355.0 Deg C

Low Temperature Aftertreatment Regeneration History - C7.1 950 (J7A09791)

Regeneration Trigger Service Hours	Aftertreatment Regeneration Trigger Percent Soot	Regeneration Interval End Service Hours	Aftertreatment Regeneration End Percent Soot	Aftertreatment Regeneration End Status	Exhaust Back Pressure Regulator Enabled Duration	Average Air Intake Temperature	Average DPF #1 Intake Temperature	DPF #1 Intake Temperature Deviation
4023.66 hours	29 %	4023.66 hours	29 %	Regeneration Completed	0 sec	22 Deg C	268 Deg C	0 Deg C

Average Engine Speed	Engine Speed Deviation	Average Engine Load	Engine Load Deviation
1199 rpm	1 rpm	17 %	0 %

Hydrocarbon Dosing History - C7.1 950 (J7A09791)

Regeneration Trigger Service Hours	Aftertreatment Regeneration Trigger Type	Aftertreatment Regeneration Trigger Percent Soot	Aftertreatment Regeneration Urgency Level	Regeneration Completion Service Hours	Aftertreatment Regeneration End Status	Aftertreatment Regeneration End Percent Soot	Average Air Intake Temperature	Average Diesel Oxidation Catalyst Intake Temperature Margin
5639.93 hours	SCR Maintenance	31 %	Low	5640.15 hours	Ignition Key Switch	33 %	22 Deg C	48 Deg C

5640.35 hours	SCR Maintenance	31 %	Low	5640.74 hours	Regeneration Completed	26 %	24 Deg C	50 Deg C
5720.02 hours	SCR Maintenance	24 %	Low	5720.26 hours	Ignition Key Switch	24 %	19 Deg C	74 Deg C
5720.45 hours	SCR Maintenance	24 %	Low	5720.80 hours	Regeneration Completed	22 %	20 Deg C	72 Deg C
5801.26 hours	SCR Maintenance	24 %	Low	5801.44 hours	Ignition Key Switch	24 %	20 Deg C	50 Deg C
5801.57 hours	SCR Maintenance	23 %	Low	5801.75 hours	Ignition Key Switch	21 %	19 Deg C	74 Deg C
5801.85 hours	SCR Maintenance	21 %	Low	5802.12 hours	Regeneration Completed	20 %	19 Deg C	78 Deg C
5881.70 hours	SCR Maintenance	22 %	Low	5882.60 hours	Regeneration Completed	21 %	19 Deg C	44 Deg C
5962.23 hours	SCR Maintenance	24 %	Low	5962.23 hours	Ignition Key Switch	24 %	24 Deg C	32 Deg C
5962.38 hours	SCR Maintenance	24 %	Low	5962.87 hours	Regeneration Completed	24 %	25 Deg C	56 Deg C
6042.95 hours	SCR Maintenance	26 %	Low	6043.82 hours	Regeneration Completed	25 %	26 Deg C	48 Deg C
6123.39 hours	SCR Maintenance	28 %	Low	6123.79 hours	Ignition Key Switch	28 %	22 Deg C	62 Deg C
6124.45 hours	SCR Maintenance	27 %	Low	6124.46 hours	Ignition Key Switch	27 %	21 Deg C	-36 Deg C
6124.53 hours	SCR Maintenance	27 %	Low	6124.80 hours	Regeneration Completed	27 %	23 Deg C	52 Deg C
6204.57 hours	SCR Maintenance	27 %	Low	6205.10 hours	Ignition Key Switch	25 %	19 Deg C	32 Deg C
6205.51 hours	SCR Maintenance	24 %	Low	6205.99 hours	Regeneration Completed	22 %	20 Deg C	40 Deg C
6285.89 hours	SCR Maintenance	25 %	Low	6286.40 hours	Regeneration Completed	22 %	35 Deg C	56 Deg C

6367.56 hours	SCR Maintenance	30 %	Low	6368.16 hours	Regeneration Completed	28 %	25 Deg C	52 Deg C
6447.49 hours	SCR Maintenance	21 %	Low	6447.82 hours	Ignition Key Switch	23 %	20 Deg C	44 Deg C
6447.91 hours	SCR Maintenance	23 %	Low	6448.21 hours	Regeneration Completed	21 %	22 Deg C	42 Deg C
6528.91 hours	SCR Maintenance	34 %	Low	6528.93 hours	Diesel Oxidation Catalyst Intake Temperature Low - Temporary Lock Out	34 %	23 Deg C	-12 Deg C
6529.01 hours	SCR Maintenance	33 %	Low	6529.68 hours	Regeneration Completed	24 %	24 Deg C	40 Deg C
6609.44 hours	SCR Maintenance	42 %	Low	6609.58 hours	Ignition Key Switch	40 %	21 Deg C	52 Deg C
6609.80 hours	SCR Maintenance	36 %	Low	6610.48 hours	Regeneration Completed	26 %	24 Deg C	64 Deg C
6690.71 hours	SCR Maintenance	26 %	Low	6691.39 hours	Regeneration Completed	22 %	21 Deg C	44 Deg C
6771.15 hours	SCR Maintenance	31 %	Low	6771.82 hours	Ignition Key Switch	24 %	23 Deg C	30 Deg C
6851.68 hours	SCR Maintenance	29 %	Low	6852.08 hours	Regeneration Completed	26 %	24 Deg C	82 Deg C
6932.55 hours	SCR Maintenance	33 %	Low	6933.22 hours	Regeneration Completed	23 %	23 Deg C	34 Deg C
7014.05 hours	SCR Maintenance	20 %	Low	7014.43 hours	Regeneration Completed	22 %	30 Deg C	76 Deg C
7093.93 hours	SCR Maintenance	27 %	Low	7094.56 hours	Regeneration Completed	23 %	24 Deg C	58 Deg C
7174.08 hours	SCR Maintenance	19 %	Low	7174.53 hours	Regeneration Completed	21 %	37 Deg C	78 Deg C

7254.37 hours	SCR Maintenance	24 %	Low	7254.38 hours	Ignition Key Switch	24 %	30 Deg C	8 Deg C
7254.76 hours	SCR Maintenance	24 %	Low	7255.27 hours	Regeneration Completed	24 %	26 Deg C	64 Deg C
7334.79 hours	SCR Maintenance	21 %	Low	7335.31 hours	Regeneration Completed	21 %	31 Deg C	60 Deg C
7415.13 hours	SCR Maintenance	28 %	Low	7416.00 hours	Regeneration Completed	21 %	24 Deg C	48 Deg C
7496.97 hours	SCR Maintenance	25 %	Low	7497.44 hours	Regeneration Completed	25 %	22 Deg C	60 Deg C
7576.96 hours	SCR Maintenance	20 %	Low	7577.30 hours	Ignition Key Switch	23 %	21 Deg C	42 Deg C
7578.15 hours	SCR Maintenance	13 %	Low	7578.50 hours	Ignition Key Switch	15 %	21 Deg C	44 Deg C
7579.14 hours	SCR Maintenance	11 %	Low	7579.53 hours	Regeneration Completed	13 %	22 Deg C	50 Deg C
7659.05 hours	SCR Maintenance	24 %	Low	7659.48 hours	Regeneration Completed	21 %	61 Deg C	56 Deg C

Average Intake Manifold Air Temperature
38.0 Deg C
36.0 Deg C
50.0 Deg C
47.0 Deg C
40.0 Deg C
47.0 Deg C
46.0 Deg C
35.0 Deg C
49.0 Deg C
44.0 Deg C
36.0 Deg C
48.0 Deg C
32.0 Deg C
41.0 Deg C
30.0 Deg C
33.0 Deg C

54.0 Deg C
37.0 Deg C
41.0 Deg C
43.0 Deg C
32.0 Deg C
35.0 Deg C
43.0 Deg C
40.0 Deg C
35.0 Deg C
35.0 Deg C
48.0 Deg C
38.0 Deg C
52.0 Deg C
39.0 Deg C
56.0 Deg C
41.0 Deg C
43.0 Deg C
46.0 Deg C
32.0 Deg C
46.0 Deg C
38.0 Deg C
38.0 Deg C
39.0 Deg C
52.0 Deg C

Input/Output Module

Parameter	Value
ECM Part Number	2995744-06
ECM Serial Number	2960B256HZ
Software Group Part Number	4805894-00
Software Group Release Date	SEP2015
Software Group Description	Relay Driver Module

Implement 950M (XCJ20550)

Parameter	Value
Product ID	XCJ20550
Equipment ID	
ECM Part Number	4559580-01
ECM Serial Number	27908228WC
Software Group Part Number	6340962-00
Software Group Release Date	OCT2022
Software Group Description	950 Implement

Logged Diagnostic Codes [Diagnostic Clock = 7694 hours] - Implement 950M (XCJ20550)

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

Logged Event Codes [Diagnostic Clock = 7694 hours] - Implement 950M (XCJ20550)

Code	Description	Occ.	First	Last
No Logged Event Codes				

Active Diagnostic Codes - Implement 950M (XCJ20550)

Code	Description
No Active Diagnostic Codes	

Active Event Codes - Implement 950M (XCJ20550)

Code	Description
No Active Events	

Current Totals - Implement 950M (XCJ20550)

Description	Value	Unit

Configuration - Implement 950M (XCJ20550)

Description	Value	Unit
Product ID	XCJ20550	
Equipment ID		
Secondary Steering Pump Installation Status	Installed	
Machine Steering Configuration	Hydromechanical Steering Wheel	
Implement Linkage Configuration	High Lift	
Implement Tool Configuration	Bucket	
Loader Lift Linkage Position Sensor Configuration	Rotary Position Sensor	
Loader Tilt Linkage Position Sensor Configuration	Rotary Position Sensor	
Joystick Installation Status	Not Installed	
Tilt Function Enable Status	Enabled	
3rd Function Enable Status	Enabled	
4th Function Enable Status	Disabled	
Raise Kickout Enable Status	Enabled	
Lower Kickout Enable Status	Enabled	
Rackback Kickout Enable Status	Enabled	
Dump Kickout Enable Status	Enabled	
Lift Linkage Float Enable Status	Enabled	
Lift Linkage Feather Catch Enable Status	Enabled	
Dump Stop Snubbing Enable Status	Disabled	
Autodig Installation Status	Not Installed	
Raise Snubbing Enable Status	Enabled	
Lower Snubbing Enable Status	Enabled	
Rackback Snubbing Enable Status	Enabled	
Dump Snubbing Enable Status	Enabled	
Raise Solenoid #1 Start Current	0.644	Amps

Raise Solenoid #1 Maximum Current	1.181	Amps
Lower Solenoid #1 Start Current	0.633	Amps
Lower Solenoid #1 Maximum Current	1.275	Amps
Rackback Solenoid #1 Start Current	0.679	Amps
Rackback Solenoid #1 Maximum Current	1.178	Amps
Dump Solenoid #1 Start Current	0.659	Amps
Dump Solenoid #1 Maximum Current	1.188	Amps
3rd Function Rearward Solenoid Start Current	0.560	Amps
3rd Function Rearward Solenoid Maximum Current	1.230	Amps
3rd Function Forward Solenoid Start Current	0.550	Amps
3rd Function Forward Solenoid Maximum Current	1.250	Amps
Raise Valve Modulation Scale Factor	100.0	%
Lower Valve Modulation Scale Factor	100.0	%
Rackback Valve Modulation Scale Factor	100.0	%
Dump Valve Modulation Scale Factor	100.0	%
Long Range Work Lights #1 Installation Status	Installed	
Beacon Installation Status	Installed	
Heated Side Rear View Mirrors Installation Status	Installed	
Automatic Rear Wiper Enable Status	Disabled	
Operator Seat Belt Monitor Installation Status	Installed	
Automatic Beacon On Enable Status	Disabled	
Ride Control System Installation Status	Installed	
Ride Control Forward Activation Speed	9.7	km/h
Ride Control Reverse Activation Speed	9.7	km/h
Ride Control Pressure Equalization Time	3	sec
Quick Coupler Installation Status	Not Installed	
Lift Cylinder Load Hold Check Valve Installation Status	Not Installed	
Battery Cable Shield Monitoring System Installation	Not Installed	
Production Measurement Feature Installation Status	Not Installed	
Production Measurement Feature Temporary Installation Status	Not Installed	
Payload Data Source Configuration	Caterpillar	
Production Measurement Feature Temporary Installation Time Remaining	14992	min
Production Measurement Feature Enable Status	Unavailable Parameter	
Automatic Truck ID Feature	Not Enabled	
Automatic Material ID Feature	Not Enabled	
Onboard Payload Printer Installation Status	Not Installed	
Payload Control System Number of Printer Tickets Configuration	1	

Onboard Payload Printer Number of Blank Lines Preceding Output	1	
Onboard Payload Printer Number of Blank Lines Following Output	1	
Onboard Payload Printer Truck Ticket Number	0	
Onboard Payload Printer Ticket Header Enable Status	Disabled	
Onboard Payload Printer Ticket Header Line #1	CATERPILLAR	
Onboard Payload Printer Ticket Header Line #2	TRUCK TICKET	
Onboard Payload Printer Ticket Header Line #3		
Onboard Payload Printer Ticket Bucket Weights Enable Status	Enabled	
Onboard Payload Printer Ticket Truck Payload Weight Enable Status	Enabled	
Onboard Payload Printer Ticket Truck ID Enable Status	Enabled	
Onboard Payload Printer Ticket Material ID Enable Status	Enabled	
Onboard Payload Printer Ticket Operator ID Enable Status	Enabled	
Onboard Payload Printer Date Format Configuration	MM-DD-YYYY	
Onboard Payload Printer Date Format Separator Character	-	
Onboard Payload Printer Ticket Payload Data Store Time Enable Status	Enabled	
Onboard Payload Printer Material Report Reset Time Enable Status	Enabled	
Onboard Payload Printer Truck Report Reset Time Enable Status	Enabled	

Tool Configuration - Implement 950M (XCJ20550)

Active Tool : BUCKET

Description	Value	Unit
Tool Program Name	BUCKET	Active
Tool Program Implement Modulation Configuration	Normal	
Tool Program 3rd Function Lever Detent Mode	Off	
Tool Program Parallel Lift Enable Status	Disabled	
Tool Program 3rd Function Port A Maximum Valve Flow Percentage	60	%
Tool Program 3rd Function Port B Maximum Valve Flow Percentage	60	%

Description	Value	Unit

Tool Program Name	TOOL#2	
Tool Program Implement Modulation Configuration	Normal	
Tool Program 3rd Function Lever Detent Mode	Off	
Tool Program Parallel Lift Enable Status	Enabled	
Tool Program 3rd Function Port A Maximum Valve Flow Percentage	100	%
Tool Program 3rd Function Port B Maximum Valve Flow Percentage	100	%

Description	Value	Unit
Tool Program Name	TOOL#3	
Tool Program Implement Modulation Configuration	Normal	
Tool Program 3rd Function Lever Detent Mode	Off	
Tool Program Parallel Lift Enable Status	Enabled	
Tool Program 3rd Function Port A Maximum Valve Flow Percentage	100	%
Tool Program 3rd Function Port B Maximum Valve Flow Percentage	100	%

Description	Value	Unit
Tool Program Name	TOOL#4	
Tool Program Implement Modulation Configuration	Normal	
Tool Program 3rd Function Lever Detent Mode	Off	
Tool Program Parallel Lift Enable Status	Enabled	
Tool Program 3rd Function Port A Maximum Valve Flow Percentage	100	%
Tool Program 3rd Function Port B Maximum Valve Flow Percentage	100	%

Description	Value	Unit
Tool Program Name	TOOL#5	
Tool Program Implement Modulation Configuration	Normal	
Tool Program 3rd Function Lever Detent Mode	Off	

Tool Program Parallel Lift Enable Status	Enabled	
Tool Program 3rd Function Port A Maximum Valve Flow Percentage	100	%
Tool Program 3rd Function Port B Maximum Valve Flow Percentage	100	%

Graphical Display (XCJ20550)

Parameter	Value
ECM Part Number	4592220-05
ECM Serial Number	2960G065ZU
Software Group Part Number	6172274-00
Software Group Release Date	NOV2021
Software Group Description	MWL_Information Display

Logged Diagnostic Codes - Graphical Display (XCJ20550)

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

Logged Event Codes - Graphical Display (XCJ20550)

Code	Description	Occ.	First	Last
No Logged Event Codes				

Active Diagnostic Codes - Graphical Display (XCJ20550)

Code	Description
No Active Diagnostic Codes	

Active Event Codes - Graphical Display (XCJ20550)

Code	Description
No Active Events	

Configuration - Graphical Display (XCJ20550)

Description	Value	Unit
Product ID	XCJ20550	
Service Mode Enable Code	1234	
Display Language Status	English	
Information Units Status	Metric	
Display Weight Units Configuration	Tonne (metric)	
Display System Mode	Normal	
Camera System Installation Status	Not Installed	
Number of Cameras	1	
Object Detection System Enable Status	Disabled	

Object Detection System Radar Type Configuration Code	Disabled or Not Installed	
Object Detection Alarm Mode	Disabled or Not Installed	

Transmission 950M (WL505051)

Parameter	Value
Product ID	XCJ20550
Equipment ID	
Transmission Serial Number	WL505051
ECM Part Number	4559584-01
ECM Serial Number	30706634WF
Software Group Part Number	6323543-00
Software Group Release Date	OCT2022
Software Group Description	950 Transmission
Active Diagnostic Codes Present	No

Logged Diagnostic Codes [Diagnostic Clock = 7694 hours] - Transmission 950M (WL505051)

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

Logged Event Codes [Diagnostic Clock = 7694 hours] - Transmission 950M (WL505051)

Code	Description	Occ.	First	Last
No Logged Event Codes				

Active Diagnostic Codes - Transmission 950M (WL505051)

Code	Description
No Active Diagnostic Codes	

Active Event Codes - Transmission 950M (WL505051)

Code	Description
No Active Events	

Current Totals - Transmission 950M (WL505051)

Description	Value	Unit
Total Forward Distance	20330.10	km
Total Neutral Gear Operating Hours	2988	hours
Total Hours Coasting In Neutral	0	hours
Total Distance Coasting In Neutral	0.0	km
Total Number of Coasting in Neutral Occurrences	0	
Total Number of Coasting in Neutral Protection Active Occurrences	0	

Total Hours Coasting in Neutral Protection Active	0.000	hours
Total Distance Coasting in Neutral Protection Active	0.0	km
Total Reverse Distance	8467.10	km
Total Powertrain Oil Filter Bypass Hours	0.93	hours

Configuration - Transmission 950M (WL505051)

Description	Value	Unit
Transmission Serial Number	WL505051	
Lockup Clutch Installation Status	Installed	
Transmission Maximum Forward Gear	5	
Transmission Maximum Reverse Gear	3	
Forward to Reverse Desired Gear	2	
Reverse to Forward Desired Gear	2	
Ground Speed Limiter Installation Status	Not Installed	
Operator Requested Forward Machine Speed Limit	40.0	km/h
Operator Requested Reverse Machine Speed Limit	40.0	km/h
Tire Rolling Radius	787	mm
Transmission Direction Switch #2 Type	Type 1	
Economy Mode	Off	
Integrated Braking System Manual Mode Enable Status	Enabled	
Level Operation Neutralization Offset Setpoint	2.0	%
Moderate Slope Operation Neutralization Offset Setpoint	6.0	%
Aggressive Slope Operation Neutralization Offset Setpoint	10.0	%
Differential Lock Installation Configuration	Front	
Automatic Differential Lock Feature Installation Status	Not Installed	
Axle Oil Cooler Installation Status	Not Installed	
Cold Engine Parasitic Load Reduction Installation	Not Installed	
Advanced Machine Security System Installation Status	Not Installed	
Operator Identification Enable Status	Disabled	
Operator Management Radio Frequency Identification Device Enabled Status	Disabled	
Tire Monitoring System Installation Status	Not Installed	
Left Front Tire Pressure/Temperature Sensor Identification Number		
Right Front Tire Pressure/Temperature Sensor Identification Number		
Left Rear Tire Pressure/Temperature Sensor Identification Number		
Right Rear Tire Pressure/Temperature Sensor Identification Number		

Tire Monitoring System First Alert Low Pressure Percentage Threshold	Unavailable	%
Tire Monitoring System Second Alert Low Pressure Percentage Threshold	Unavailable	%
Tire Monitoring System Alert High Pressure Percentage Threshold	Unavailable	%
Auto Lube System Installation Status	Installed	
Auto Lube System Configuration Code	2	
Auto Lube Cycle Configuration	14	
Lubrication Cycle Set Command	Cycle Mode #3	
Lubrication Operation Mode Set Command	Automatic	
DEF Level Full Alarm Enable Status	Enabled	
EngineerDataEnble	Disabled	

Lifetime:Time vs Torque Converter Oil Outlet Temperature - Transmission 950M (WL505051)

Torque Converter Oil Outlet Temperature(Deg C)	hours	%
<60.0	985.10	12.83
60.0-64.9	1136.45	14.80
65.0-69.9	1258.55	16.39
70.0-74.9	1327.30	17.29
75.0-79.9	1128.60	14.70
80.0-84.9	807.20	10.51
85.0-89.9	587.20	7.65
90.0-94.9	346.40	4.51
95.0-99.9	91.10	1.19
100.0-104.9	8.75	0.11
105.0-109.9	0.65	0.01
110.0-114.9	0.05	0.00
115.0-119.9	0.00	0.00
120.0-124.9	0.00	0.00
125.0-129.9	0.00	0.00
130.0-134.9	0.00	0.00
135.0-139.9	0.00	0.00
140.0-145.0	0.00	0.00
>145.0	0.00	0.00

Lifetime:Time vs Front Axle Oil Temperature - Transmission 950M (WL505051)

Front Axle Oil Temperature(Deg C)	hours	%
<0.0	0.00	0.00
0.0-4.9	3.05	0.04
5.0-9.9	21.05	0.27
10.0-14.9	66.15	0.86
15.0-19.9	149.10	1.93
20.0-24.9	268.80	3.48
25.0-29.9	535.50	6.93
30.0-34.9	810.90	10.49
35.0-39.9	1110.80	14.36

40.0-44.9	1294.75	16.74
45.0-49.9	1200.30	15.52
50.0-54.9	874.10	11.30
55.0-59.9	533.30	6.90
60.0-64.9	335.75	4.34
65.0-69.9	209.75	2.71
70.0-74.9	134.45	1.74
75.0-79.9	84.15	1.09
80.0-84.9	45.45	0.59
85.0-89.9	29.20	0.38
90.0-94.9	20.15	0.26
95.0-99.9	4.70	0.06
100.0-104.9	1.45	0.02
105.0-109.9	0.00	0.00
110.0-114.9	0.00	0.00
115.0-119.9	0.00	0.00
120.0-124.9	0.00	0.00
125.0-129.9	0.00	0.00
130.0-135.0	0.00	0.00
>135.0	0.00	0.00

Lifetime:Time vs Rear Axle Oil Temperature - Transmission 950M (WL505051)

Rear Axle Oil Temperature(Deg C)	hours	%
<0.0	0.00	0.00
0.0-4.9	1.50	0.02
5.0-9.9	12.50	0.16
10.0-14.9	35.55	0.46
15.0-19.9	85.85	1.11
20.0-24.9	156.80	2.03
25.0-29.9	221.60	2.87
30.0-34.9	366.90	4.74
35.0-39.9	523.90	6.78
40.0-44.9	700.80	9.06
45.0-49.9	832.90	10.77
50.0-54.9	930.25	12.03
55.0-59.9	956.00	12.36
60.0-64.9	820.85	10.62
65.0-69.9	650.95	8.42
70.0-74.9	448.10	5.79
75.0-79.9	296.85	3.84
80.0-84.9	210.10	2.72
85.0-89.9	156.80	2.03
90.0-94.9	101.90	1.32
95.0-99.9	73.40	0.95
100.0-104.9	52.65	0.68
105.0-109.9	33.60	0.43
110.0-114.9	31.80	0.41

115.0-119.9	19.95	0.26
120.0-124.9	9.20	0.12
125.0-129.9	1.80	0.02
130.0-135.0	0.10	0.00
>135.0	0.00	0.00

Lifetime:Time vs Ground Speed - Transmission 950M (WL505051)

Ground Speed(km/h)	hours	%
<0.8	972.05	19.35
0.8-3.1	854.70	17.01
3.2-5.5	879.70	17.51
5.6-7.9	814.20	16.20
8.0-10.4	608.90	12.12
10.5-12.8	406.40	8.09
12.9-15.2	251.60	5.01
15.3-17.6	133.85	2.66
17.7-20.0	72.45	1.44
20.1-22.4	21.85	0.43
22.5-24.8	6.80	0.14
24.9-27.3	1.55	0.03
27.4-29.7	0.35	0.01
29.8-32.1	0.05	0.00
32.2-34.5	0.00	0.00
34.6-36.9	0.00	0.00
37.0-39.3	0.00	0.00
39.4-41.7	0.00	0.00
41.8-44.2	0.00	0.00
44.3-46.6	0.00	0.00
46.7-49.0	0.00	0.00
49.1-51.4	0.00	0.00
51.5-53.8	0.00	0.00
53.9-56.3	0.00	0.00
>56.3	0.00	0.00

Lifetime:Time vs Torque Converter Speed Ratio - Transmission 950M (WL505051)

Torque Converter Speed Ratio( )	hours	%
<0.000	0.00	0.00
0.000-0.099	538.15	10.71
0.100-0.199	202.15	4.02
0.200-0.299	207.30	4.13
0.300-0.399	227.90	4.54
0.400-0.499	278.45	5.54
0.500-0.599	388.15	7.73
0.600-0.699	502.70	10.01
0.700-0.799	561.70	11.18
0.800-0.899	736.50	14.66
0.900-0.999	854.25	17.00

1.000-1.099	369.45	7.35
1.100-1.199	72.70	1.45
1.200-1.299	39.00	0.78
1.300-1.399	20.80	0.41
1.400-1.499	11.20	0.22
1.500-1.599	6.45	0.13
1.600-1.699	3.65	0.07
1.700-1.800	1.95	0.04
>1.800	1.80	0.04

Ground Speed at Directional Shift Occurrences - Transmission 950M (WL505051)

Ground Speed(km/h)	Count	%
<0.8	292390	29.63
0.8-2.3	138014	13.99
2.4-3.9	132002	13.38
4.0-5.5	151664	15.37
5.6-7.1	123331	12.50
7.2-8.8	88071	8.93
8.9-10.4	45372	4.60
10.5-12.0	13140	1.33
12.1-13.6	2380	0.24
13.7-15.2	302	0.03
15.3-16.8	49	0.00
16.9-18.4	7	0.00
18.5-20.0	1	0.00
20.1-21.6	0	0.00
21.7-23.2	0	0.00
23.3-24.8	0	0.00
24.9-26.5	0	0.00
26.6-28.1	0	0.00
28.2-29.7	0	0.00
29.8-31.3	0	0.00
31.4-32.9	0	0.00
33.0-34.6	0	0.00
>34.6	0	0.00

Shift Count Matrix [Diagnostic Clock = 7694.1059 hours] - Transmission 950M (WL505051)

To	N	R1	R2	R3	1	2	3	4	5
From									
N	---	271	132549	269	493	74211	167	111	2
R1	220	---	184	115	1033	665	1	1	0
R2	40896	597	---	196276	79	343609	117	131	0
R3	3759	44	29538	---	7	163424	123	559	0
1	13609	1300	120887	40	---	7005	1378	10	0
2	112082	5	202026	180	48571	---	397273	6409	298
3	33340	2	74361	238	81351	163918	---	76777	1937
4	3634	0	18578	332	11113	12273	28776	---	18584
5	647	0	3538	2	1583	1672	4092	9287	---