

# Cat Electronic Technician 2023A v1.0

## Product Status Report

11-3-2024 14:23

### Product Status Report

Parameter	Value
Product ID	HEX 352F
Equipment ID	NDC80069
Comments	

### Diesel Exhaust Fluid Controller #1

Parameter	Value
Aftertreatment #1 DEF Dosing System Serial Number	PET109190M
Application Software Part Number	6164916-00

### Configuration - Diesel Exhaust Fluid Controller #1

Description	Value	Unit
Aftertreatment #1 DEF Dosing System Serial Number	PET109190M	
Application Software Part Number	6164916-00	

### Monitor System

Parameter	Value
ECM Part Number	3095711-07
Software Group Part Number	5406527-00
Software Group Release Date	APR2017
Software Group Description	E HEX MONITOR Application

### Implement 300F

Parameter	Value
Product ID	
Equipment ID	Unavailable
ECM Part Number	4600132-06
ECM Serial Number	0549F110VZ
Software Group Part Number	5569387-00
Software Group Release Date	Feb2018
Software Group Description	300F HEX ATT CONTROL

### Logged Diagnostic Codes [Diagnostic Clock = 4939 hours] - Implement 300F

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

Logged Event Codes [Diagnostic Clock = 4939 hours] - Implement 300F

Code	Description	Occ.	First	Last
No Logged Event Codes				

Active Diagnostic Codes - Implement 300F

Code	Description
No Active Diagnostic Codes	

Active Event Codes - Implement 300F

Code	Description
No Active Events	

Engine #1 Aftertreatment Controller

Parameter	Value
Equipment ID	NDC80069
Engine Serial Number	T4F16107
ECM Part Number	4855429-02
ECM Serial Number	07797469QU
Software Group Part Number	5902887-00
Software Group Release Date	APR20
Software Group Description	AFT_T4F_C13_HWA_A5E2V1

Logged Diagnostic Codes [Diagnostic Clock = 4939 hours] - Engine #1 Aftertreatment Controller

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

Logged Event Codes [Diagnostic Clock = 4939 hours] - Engine #1 Aftertreatment Controller

Code	Description	Occ.	First	Last
E114 (1)	Aftertreatment #1 DEF Dosing Unit #1 Input Lines Not Purged	7	4927	4939

Active Diagnostic Codes - Engine #1 Aftertreatment Controller

Code	Description
No Active Diagnostic Codes	

Active Event Codes - Engine #1 Aftertreatment Controller

Code	Description
No Active Events	

System Communication Status - Active Problems - Engine #1 Aftertreatment Controller

ECMs	Detected Problem	Data Link	Diagnostic Information
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## System Communication Status - Inactive Problems - Engine #1 Aftertreatment Controller

ECMs	Detected Problem	Data Link	Diagnostic Information
Device 1: Engine #1 Aftertreatment Controller	Device #1 is unable to communicate on the data link.	J1939 #2	Diagnostic Code: 2348-9 - Service Hour Meter: 00:00:00 -
Device 1: Engine #1 Aftertreatment Controller - 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: 00:21:02 -
Device 1: Engine #1 Aftertreatment Controller - Device 2: Aftertreatment #1 Outlet #1 NOx Level Sensor	Device #1 is unable to communicate with Device #2 on the data link.	J1939 #3	Diagnostic Code: 5856-9 - Service Hour Meter: 00:21:02 -

## Current Totals - Engine #1 Aftertreatment Controller

Description	Value	Unit
DPF #1 Last Ash Service Engine Lifetime Hours	0,0	hours
Total ARD Fuel	3181,375	L
Aftertreatment #1 Total DEF Used	2871,5	L
Exhaust Particulate Control System Diagnostic Time	0	sec
Exhaust Particulate Control System Diagnostic Count	0	

## Configuration - Engine #1 Aftertreatment Controller

Description	Value	Unit
Equipment ID	NDC80069	
Engine Serial Number	T4F16107	
ECM Serial Number	07797469QU	
ECM Part Number	4855429-02	
Software Group Part Number	5902887-00	
Software Group Release Date	APR20	
Software Group Description	AFT_T4F_C13_HWA_A5E2V1	
ARD Auto Regeneration Enable Status	Enabled	
Factory Installed Aftertreatment #1 Identification Number	FGC181371A	
ARD Fuel Pressure #2 System Installation Status	Installed	

## Aftertreatment Regeneration History - Engine #1 Aftertreatment Controller

Aftertreatment Regeneration Speed Type	Aftertreatment Regeneration Trigger Type	ARD Auto Regeneration Enable Status	Regeneration Start Time	Regeneration Trigger Service Hours	Application Regeneration Readiness Status	Aftertreatment Regeneration Trigger Percent Soot	Aftertreatment Regeneration End Speed Type	Aftertreatment Regeneration End Trigger Type
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High Speed	Start	Enabled	6-3-2024 07:28:08	4939,56 hours	6	10 %	High Speed	Start
Low Speed	Start	Enabled	6-3-2024 04:04:47	4939,22 hours	6	14 %	High Speed	Start
High Speed	Start	Enabled	1-3-2024 09:27:02	4938,98 hours	1	13 %	High Speed	Start
High Speed	Start	Enabled	29-2- 2024 08:35:18	4938,73 hours	1	13 %	High Speed	Start
Low Speed	Start	Enabled	28-2- 2024 05:07:35	4938,48 hours	6	16 %	High Speed	Start
Low Speed	Start	Enabled	27-2- 2024 04:55:23	4937,75 hours	5	22 %	High Speed	Start
Low Speed	Start	Enabled	26-2- 2024 08:12:42	4936,79 hours	6	28 %	Low Speed	Start
Low Speed	Start	Enabled	15-2- 2024 07:16:10	4936,41 hours	6	32 %	Low Speed	Start
Low Speed	Start	Enabled	10-1- 2024 08:13:08	4935,92 hours	6	34 %	Low Speed	Start
High Speed	Start	Enabled	19-12- 2023 13:03:11	4933,57 hours	1	33 %	High Speed	Start
Low Speed	ARD Maintena nce	Enabled	14-12- 2023 09:35:24	4933,37 hours	6	38 %	High Speed	ARD Maintena nce
High Speed	Start	Enabled	14-12- 2023 08:47:44	4932,58 hours	1	36 %	High Speed	Start
High Speed	Start	Enabled	13-12- 2023 07:58:50	4931,21 hours	1	32 %	High Speed	Start
High Speed	Start	Enabled	30-11- 2023 11:26:19	4930,98 hours	1	32 %	High Speed	Start
High Speed	Start	Enabled	14-11- 2023 16:12:01	4930,26 hours	1	34 %	High Speed	Start
Low Speed	Start	Enabled	26-10- 2023 01:07:43	4929,67 hours	6	38 %	High Speed	Start
High Speed	Start	Enabled	5-10- 2023 05:28:30	4928,92 hours	6	40 %	High Speed	Start
High Speed	Start	Enabled	26-9- 2023 00:47:40	4928,64 hours	1	43 %	High Speed	Start
Low Speed	Start	Enabled	3-8-2023 13:41:05	4926,57 hours	6	54 %	Low Speed	Start
High Speed	Start	Enabled	31-7- 2023 14:24:42	4926,28 hours	1	55 %	High Speed	Start

High Speed	Start	Enabled	26-7-2023 02:39:13	4925,71 hours	1	55 %	High Speed	Start
High Speed	Start	Enabled	25-7-2023 03:28:53	4925,61 hours	1	55 %	High Speed	Start
High Speed	Start	Enabled	20-7-2023 02:10:53	4920,60 hours	1	27 %	High Speed	Start
Low Speed	Soot	Enabled	19-7-2023 10:49:31	4919,26 hours	5	80 %	High Speed	Soot
High Speed	Start	Enabled	19-7-2023 02:08:29	4911,68 hours	1	21 %	High Speed	Start
Low Speed	Soot	Enabled	18-7-2023 11:31:40	4909,94 hours	6	81 %	High Speed	Soot
Low Speed	Start	Enabled	18-7-2023 02:03:53	4904,81 hours	6	46 %	Low Speed	Start
High Speed	Soot	Enabled	17-7-2023 10:33:43	4902,85 hours	1	82 %	High Speed	Soot
High Speed	Soot	Enabled	17-7-2023 07:00:24	4900,06 hours	1	80 %	High Speed	Soot
High Speed	Soot	Enabled	17-7-2023 05:47:04	4899,65 hours	1	80 %	High Speed	Soot
Low Speed	Start	Enabled	17-7-2023 02:29:28	4897,26 hours	6	71 %	Low Speed	Start
Low Speed	Soot	Enabled	14-7-2023 04:55:42	4895,16 hours	6	80 %	High Speed	Soot
High Speed	Start	Enabled	14-7-2023 02:06:33	4892,62 hours	1	66 %	High Speed	Start
High Speed	Soot	Enabled	13-7-2023 06:58:55	4886,91 hours	1	80 %	High Speed	Soot
High Speed	Start	Enabled	13-7-2023 02:13:06	4883,29 hours	1	29 %	High Speed	Start
High Speed	Soot	Enabled	12-7-2023 13:10:45	4882,58 hours	1	80 %	High Speed	Soot
High Speed	Start	Enabled	12-7-2023 02:11:49	4876,04 hours	1	23 %	High Speed	Start
High Speed	Soot	Enabled	11-7-2023 11:16:38	4874,14 hours	1	80 %	High Speed	Soot
High Speed	Start	Enabled	11-7-2023 02:16:15	4868,17 hours	1	45 %	High Speed	Start

High Speed	Start	Enabled	10-7-2023 03:08:47	4865,67 hours	1	43 %	High Speed	Start
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Regeneration End Time	Regeneration Completion Service Hours	Aftertreatment Regeneration End Percent Soot	Aftertreatment Regeneration End Status
6-3-2024 07:32:36	4939,63 hours	8 %	Work
6-3-2024 04:13:13	4939,36 hours	7 %	Complete
1-3-2024 09:28:11	4939,00 hours	13 %	Work
29-2-2024 08:35:55	4938,74 hours	13 %	Unsuccessful
28-2-2024 05:16:01	4938,62 hours	11 %	Complete
27-2-2024 05:03:48	4937,89 hours	14 %	Complete
26-2-2024 08:21:11	4936,93 hours	19 %	Complete
15-2-2024 07:24:26	4936,55 hours	25 %	Complete
10-1-2024 08:21:23	4936,05 hours	27 %	Complete
19-12-2023 13:11:14	4933,66 hours	24 %	Complete
14-12-2023 09:41:40	4933,48 hours	29 %	Complete
14-12-2023 08:56:01	4932,72 hours	29 %	Complete
13-12-2023 08:06:54	4931,35 hours	27 %	Complete
30-11-2023 11:27:33	4931,00 hours	32 %	Work
14-11-2023 16:20:03	4930,40 hours	27 %	Complete
26-10-2023 01:16:32	4929,82 hours	31 %	Complete
5-10-2023 05:36:43	4929,06 hours	32 %	Complete
26-9-2023 00:56:01	4928,78 hours	37 %	Complete
3-8-2023 13:49:28	4926,71 hours	46 %	Complete
31-7-2023 14:31:43	4926,39 hours	49 %	Work
26-7-2023 02:44:53	4925,81 hours	51 %	Work
25-7-2023 03:29:28	4925,62 hours	55 %	Work
20-7-2023 02:19:29	4920,74 hours	19 %	Complete
19-7-2023 11:36:33	4920,04 hours	0 %	Complete
19-7-2023 02:16:44	4911,81 hours	16 %	Complete
18-7-2023 12:24:05	4910,81 hours	0 %	Complete
18-7-2023 02:12:28	4904,95 hours	37 %	Complete
17-7-2023 11:09:39	4903,45 hours	21 %	Work
17-7-2023 07:19:11	4900,37 hours	52 %	Work
17-7-2023 05:54:42	4899,77 hours	73 %	Work
17-7-2023 02:38:19	4897,41 hours	62 %	Complete
14-7-2023 05:27:07	4895,68 hours	29 %	Work
14-7-2023 02:14:54	4892,76 hours	59 %	Complete
13-7-2023 07:51:52	4887,79 hours	0 %	Complete
13-7-2023 02:21:23	4883,35 hours	30 %	Complete
12-7-2023 13:48:12	4883,21 hours	27 %	Work
12-7-2023 02:20:23	4876,18 hours	19 %	Complete
11-7-2023 11:57:30	4874,82 hours	0 %	Complete
11-7-2023 02:24:39	4868,31 hours	39 %	Complete
10-7-2023 03:17:10	4865,78 hours	34 %	Complete

## Aftertreatment Abnormal Shutdown History - Engine #1 Aftertreatment Controller

Engine Shutdown Type	Engine Shutdown Service Hours	Engine Startup Time After Shutdown Time & Date	Temperature Threshold	Ambient Air Temperature
Cold Shutdown (Below Ambient Temperature Threshold)	4932,24 hours	14-12-2023 08:27:38	-5,0 Deg C	-5,9 Deg C

## Service Test History - Engine #1 Aftertreatment Controller

Service Test Name	Total Operating Hours	Service Test Error ID	Service Test Status
Aftertreatment #1 System Functional Test	2000,5 hours	11C3	Incomplete
Aftertreatment #1 System Functional Test	2000,7 hours	0002	Incomplete
Aftertreatment #1 System Functional Test	2000,8 hours	0002	Incomplete
Manual DPF Regeneration	2000,9 hours	0002	Incomplete
Aftertreatment #1 System Functional Test	2001,8 hours	11C3	Incomplete
Manual DPF Regeneration	2001,9 hours	11C3	Incomplete
Ash Service Regeneration	2001,9 hours	0002	Incomplete
Aftertreatment #1 System Functional Test	2002,1 hours	0000	Complete
Aftertreatment #1 System Functional Test	3126,3 hours	1180	Incomplete
Aftertreatment #1 System Functional Test	3126,8 hours	0000	Complete

## Diesel Oxidation Catalyst Replacement - Engine #1 Aftertreatment Controller

Description	Value
Engine Lifetime Hours	4941,9 hours
Total Operating Hours	4940 hours

### History Data

No history data available.

## Aftertreatment #1 SCR Catalyst Replacement - Engine #1 Aftertreatment Controller

Description	Value
Engine Lifetime Hours	4941,9 hours
Total Operating Hours	4940 hours

### History Data

No history data available.

### DPF Ash Service - Engine #1 Aftertreatment Controller

Description	Value
DPF #1 Ash Service Status	Unavailable
Engine Lifetime Hours	4941,9 hours
Total Operating Hours	4940 hours
DPF #1 Hours Since Last Ash Service	Unavailable

### History Data

No history data available.

### Machine Control 349E/F & 352F (HEX 352F)

Parameter	Value
Product ID	HEX 352F
ECM Part Number	4600132-06
ECM Serial Number	0549F114VZ
Software Group Part Number	5615634-00
Software Group Release Date	Apr2018
Software Group Description	349F/352F HEX CONTROL

### Logged Diagnostic Codes [Diagnostic Clock = 4939 hours] - Machine Control 349E/F & 352F (HEX 352F)

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

### Logged Event Codes [Diagnostic Clock = 4939 hours] - Machine Control 349E/F & 352F (HEX 352F)

Code	Description	Occ.	First	Last
No Logged Event Codes				

### Active Diagnostic Codes - Machine Control 349E/F & 352F (HEX 352F)

Code	Description
No Active Diagnostic Codes	

### Active Event Codes - Machine Control 349E/F & 352F (HEX 352F)

Code	Description
No Active Events	

### Current Totals - Machine Control 349E/F & 352F (HEX 352F)

Description	Value	Unit
Total Operating Hours	4940	hours
Engine Maintenance Hours	4938	hours



Engine Oil Hours	463	hours
Engine Oil Filter Hours	463	hours
Engine Coolant Hours	863	hours
Fuel/ Water Separator Hours	463	hours
Secondary Fuel Filter Hours	463	hours
Tertiary Fuel Filter Hours	463	hours
Fuel Tank Cap Hours	463	hours
Aftertreatment Spark Plug Hours	4938	hours
Hydraulic Pump Hours	4938	hours
Hydraulic Pilot Oil Filter Hours	948	hours
Hydraulic Case Drain Oil Filter Hours	948	hours
Return Hydraulic Oil Filter Hours	863	hours
Hydraulic Oil Hours	863	hours
Final Drive Oil Hours	948	hours
Swing Motor Hours	2823	hours
Swing Drive Oil Hours	948	hours
Travel Motor Hours	262	hours
Aftertreatment DEF Filter Hours	4938	hours
Aftertreatment DEF Injector Hours	4938	hours
Tool #1 Hours	317	hours
Tool #2 Hours	0	hours
Tool #3 Hours	8	hours
Tool #4 Hours	602	hours
Tool #5 Hours	30	hours
Tool #6 Hours	0	hours
Tool #7 Hours	0	hours
Tool #8 Hours	346	hours
Tool #9 Hours	432	hours
Tool #10 Hours	0	hours
Return Hydraulic Oil Filter Bypass Hours	0,0	hours
Return Hydraulic Oil Filter Bypass at Cold Temperature Hours	0,0	hours
Hours of Operation at High Hydraulic Pressure	123,0	hours
Hours of Operation at Relief Hydraulic Pressure	41,1	hours

#### Configuration - Machine Control 349E/F & 352F (HEX 352F)

Description	Value	Unit
Product ID	HEX 352F	
Hydraulic Power Mode	High	
Hydraulic Power High Mode Selection Display Enable Status	Enabled	
Hydraulic Power Standard Mode Selection Display Enable Status	Enabled	

Lighting Shutdown Timer Duration	1	min
Travel Alarm Installation Status	Not Installed	
Quick Coupler Installation Status	Installed with Coupler Accelerator	
Fine Swing System Installation Status	Not Installed	
Smart Boom Installation Status	Installed	
Boom Low Pressure Relief System Installation Status	Not Installed	
Attachment Hydraulic Oil Filter Switch Configuration	Not Installed	
Machine Overload Pressure Sensor Installation	Installed	
Machine Overload Pressure Threshold	20000	kPa
Fuel Tank Maximum Volume	520	L
Engine Speed Management Feature Installation Status	Not Installed	
Heavy Lift System Installation Status	Installed	
Machine Lockout System Installation Status	Not Installed	
Semi-Automatic Excavator System Installation Status	Not Installed	
Monitoring System Configuration Code	0	
Implement Pump Configuration Code	0	
Machine Application Configuration	Multi-Proc - Electrical	
Attachment Valve #1 Configuration	One Way or Two Way - Pump #1	
Attachment Valve #2 Configuration	One Way or Two Way - Pump #2	
Attachment Valve #3 Configuration	Attachment Pump Valve - One Way or Two Way	
Attachment Valve #4 Configuration	Not Installed	
Attachment Valve #1 Control Type Configuration	Electrical	
Attachment Valve #2 Control Type Configuration	Electrical	
Attachment Valve #3 Control Type Configuration	Electrical	
Attachment Valve #1 Combiner Configuration	Valve #2 Combined with Valve #1	
Variable Relief Valve #1 Configuration	Installed on Valve #1 Extend port	
Variable Relief Valve #2 Configuration	Installed on Valve #1 Retract port	
F2 Type Valve Load Sense Pres Sensor Installation	Installed on Valve #1	
Tool Program Main Pump Flow Limit Function Enable Status	Enabled	
Boom Cylinder Retract Speed Limit System Installation Status	Installed	
Stick Cylinder Extend Speed Limit System Installation Status	Installed	
Stick Cylinder Retract Speed Limit System Installation Status	Not Installed	
Enhanced Multiple Operation Attachment Valve Limit Installation Status	Installed	
Attachment Pedal #1 Pilot Pressure Sensor Installation Status	Not Installed	

Attachment Pedal #2 Pilot Pressure Sensor Installation Status	Not Installed	
Hammer Automatic Control Feature Installation Status	Not Installed	
Joystick Handle Configuration	Modulation Handle	
Foot Switch Installation Status	Not Installed	
Left Attachment Pedal Installation Status	Not Installed	
Right Attachment Pedal Installation Status	Not Installed	
Straight Travel Pedal Installation Status	Not Installed	
Left Joystick Switch #1 Control Mode	No valve controlled	
Left Joystick Switch #2 Control Mode	No valve controlled	
Right Joystick Switch #1 Control Mode	Toggled - Valve #1 Extend	
Right Joystick Switch #2 Control Mode	Toggled - Valve #3 Extend	
Left Joystick Thumbwheel Control Mode	Attachment Valve #3	
Right Joystick Thumbwheel Control Mode	Attachment Valve #1	
Travel Speed Shift Low Delay	0,4	sec
Travel Speed Shift High Delay	0,4	sec
Travel Speed Shift Low Pres	18000	kPa
Travel Speed Shift High Pressure	32000	kPa
One Touch Engine Speed Setting	1060	rpm
AESC Setting	1060	rpm
AESC Delay Time	5,0	sec
Throttle Dial Position 1 Engine Speed	980	rpm
Throttle Dial Position 2 Engine Speed	1060	rpm
Throttle Dial Position 3 Engine Speed	1130	rpm
Throttle Dial Position 4 Engine Speed	1230	rpm
Throttle Dial Position 5 Engine Speed	1370	rpm
Throttle Dial Position 6 Engine Speed	1470	rpm
Throttle Dial Position 7 Engine Speed	1570	rpm
Throttle Dial Position 8 Engine Speed	1650	rpm
Throttle Dial Position 9 Engine Speed	1730	rpm
Throttle Dial Position 10 Engine Speed	1850	rpm
Throttle Dial Position 1 Hydraulic System Torque Percentage	20,0	%
Throttle Dial Position 2 Hydraulic System Torque Percentage	35,0	%
Throttle Dial Position 3 Hydraulic System Torque Percentage	48,0	%
Throttle Dial Position 4 Hydraulic System Torque Percentage	63,0	%
Throttle Dial Position 5 Hydraulic System Torque Percentage	77,0	%
Throttle Dial Position 6 Hydraulic System Torque Percentage	88,0	%
Throttle Dial Position 7 Hydraulic System Torque Percentage	94,0	%
Throttle Dial Position 8 Hydraulic System Torque Percentage	97,0	%
Throttle Dial Position 9 Hydraulic System Torque Percentage	99,0	%

Throttle Dial Position 10 Hydraulic System Torque Percentage	115,0	%
Engine Oil Recommended Maintenance Interval	500	hours
Engine Oil Filter Recommended Maintenance Interval	500	hours
Engine Coolant Recommended Maintenance Interval	6000	hours
Fuel/ Water Separator Recommended Maint Interval	500	hours
Secondary Fuel Filter Recommended Maintenance Interval	500	hours
Fuel Pump Screen Filter Recommended Maintenance Interval	0	hours
Tertiary Fuel Filter Recommended Maintenance Interval	500	hours
Fuel Tank Cap Recommended Maintenance Interval	1000	hours
Crankcase Ventilation Filter Recommended Maintenance Interval	0	hours
Aftertreatment Spark Plug Recommended Maintenance Interval	5000	hours
Hydraulic Pilot Oil Filter Recommended Maintenance Interval	1000	hours
Hydraulic Case Drain Oil Filter Recommended MI	1000	hours
Return Hyd Oil Filter Recommended Maint Interval	2000	hours
Attachment Hydraulic Oil Filter Recommended Maintenance Interval	0	hours
Aftertreatment DEF Filter Recommended Maintenance Interval	5000	hours
Final Drive Oil Recommended Maintenance Interval	2000	hours
Hydraulic Oil Recommended Maintenance Interval	6000	hours
Swing Drive Oil Recommended Maintenance Interval	1000	hours
Fuel Priming Pump Recommended Maintenance Interval	0	hours
Aftertreatment DEF Injector Recommended Maintenance Interval	5000	hours
Grade Control System Installation Status	Not Installed	
Boom Minimum Retraction Angle	-41,43	Deg
Grade Control Switch Installation Status	Not Installed	
Machine Laser Sensor Installation Status	Installed	
Directional Heading Sensor Installation Status	Not Installed	
Work Tool Elevation Focus Point	Center	
Elevation On-Grade Tolerance	25	mm
Grade Control Above Grade Audible Alarm Configuration	Off	
Grade Control On Grade Audible Alarm Configuration	Off	

Grade Control Below Grade Audible Alarm Configuration	Off	
Grade Slope Units Configuration	Degrees	
Linkage Ceiling Violation Warning Enable Status	Disabled	
Linkage Floor Violation Warning Enable Status	Disabled	
Boom Calibration Angle Value #1	-0,12	Deg
Boom Calibration Angle Value #2	-0,12	Deg
Boom Calibration Angle Value #3	-0,12	Deg
Boom Calibration Angle Value #4	-0,12	Deg
Boom Calibration Angle Value #5	-0,12	Deg
Stick Calibration Angle Value #1	-0,12	Deg
Stick Calibration Angle Value #2	-0,12	Deg
Stick Calibration Angle Value #3	-0,12	Deg
Stick Calibration Angle Value #4	-0,12	Deg
Stick Calibration Angle Value #5	-0,12	Deg
Advanced Machine Security System Installation Status	Not Installed	
Total Tattletale	Unavailable	

#### Calibration Status - Machine Control 349E/F & 352F (HEX 352F)

Calibration	Status	Last Successful Completion
PRV - Variable Relief Pressure Calibration Solenoid 2	Success	8,2 hours
PRV - Variable Relief Pressure Calibration Solenoid 1	Success	8,2 hours
Tilt Bucket Angle Sensor Calibration	Not Calibrated	Never Successfully Calibrated
Stick Angle Calibration	Not Calibrated	Never Successfully Calibrated
Boom Offset Left Pilot Pressure Limit Solenoid Cal	Not Calibrated	Never Successfully Calibrated
Boom Offset Right Pilot Pressure Limit Solenoid Cal	Not Calibrated	Never Successfully Calibrated
Stick Cylinder Extend Pilot Pressure Limit Solenoid Cal	Success	0,2 hours
Stick Cylinder Retract Pilot Pressure Limit Solenoid Cal	Not Calibrated	Never Successfully Calibrated
Boom Cylinder Retract Limit Solenoid Calibration	Success	0,2 hours
Boom Cylinder Extend Pilot Pressure Limit Solenoid Cal	Not Calibrated	Never Successfully Calibrated
PRV - Power Shift Pressure Calibration	Success	8,1 hours
Pump #2 Flow Limitation Pressure Solenoid Calibration - Flow	Success	1,1 hours
Pump #1 Flow Limitation Pressure Solenoid Calibration - Flow	Success	1,0 hours
Pump #2 Flow Limitation Pressure Solenoid Calibration - Pres	Success	8,1 hours

Pump #1 Flow Limitation Pressure Solenoid Calibration - Pres	Success	8,1 hours
Grade Control Bucket Measure Up Calibration	Unknown	Never Successfully Calibrated
Right Attachment Pedal Calibration	Not Calibrated	Never Successfully Calibrated
Left Attachment Pedal Calibration	Failed	307,1 hours
	Error: 0006 Aborted by user	
	Error: 0009 Aborted by ECM	
Right Joystick Thumbwheel Calibration	Success	307,1 hours
Left Joystick Thumbwheel Calibration	Success	307,1 hours
Hoe Bucket Angle Calibration	Not Calibrated	Never Successfully Calibrated
Directional Heading Sensor Calibration	Not Calibrated	Never Successfully Calibrated
Chassis Angle Sensor Calibration	Not Calibrated	Never Successfully Calibrated
Bypass Cutoff Valve #2 Pressure Solenoid Calibration	Not Calibrated	Never Successfully Calibrated
Bypass Cutoff Valve #1 Pressure Solenoid Calibration	Not Calibrated	Never Successfully Calibrated
Boom and Stick Angle Sensor Calibration	Not Calibrated	Never Successfully Calibrated
Boom Down Regeneration Valve Pressure Calibration	Success	0,3 hours
Boom Angle Calibration	Not Calibrated	Never Successfully Calibrated
Attachment Valve #4 Retract	Not Calibrated	Never Successfully Calibrated
Attachment Valve #4 Extend	Not Calibrated	Never Successfully Calibrated
Attachment Valve #3 Retract	Success	8,3 hours
Attachment Valve #3 Extend	Success	8,3 hours
Attachment Valve #2 Retract	Success	8,2 hours
Attachment Valve #2 Extend	Success	8,2 hours
Attachment Valve #1 Retract	Success	8,2 hours
Attachment Valve #1 Extend	Success	8,2 hours

**Job:Accumulated Time vs Hydraulic Oil Temperature - Machine Control 349E/F & 352F (HEX 352F)**

Hydraulic Oil Temperature( Deg C )	hours	%
<20,0	116,50	2,36
20,0-29,9	155,65	3,15
30,0-39,9	876,95	17,76
40,0-49,9	1207,10	24,45
50,0-59,9	1409,75	28,56
60,0-69,9	1005,05	20,36
70,0-79,9	165,15	3,35
80,0-89,9	0,45	0,01
90,0-99,9	0,00	0,00

100,0-109,9	0,00	0,00
110,0-120,0	0,00	0,00
>120,0	0,00	0,00

**Job:Accumulated Time vs Main Hydraulic Pump Oil Pressure - Machine Control 349E/F & 352F (HEX 352F)**

Main Hydraulic Pump Oil Pressure( kPa )	hours	%
<20000,0	4425,45	89,65
20000,0-21999,9	191,70	3,88
22000,0-23999,9	145,90	2,96
24000,0-25999,9	92,35	1,87
26000,0-27999,9	39,10	0,79
28000,0-29999,9	17,95	0,36
30000,0-31999,9	10,05	0,20
32000,0-33999,9	6,50	0,13
34000,0-35999,9	7,45	0,15
36000,0-37999,9	0,05	0,00
38000,0-40000,0	0,00	0,00
>40000,0	0,00	0,00

**Tool Configuration - Machine Control 349E/F & 352F (HEX 352F)**

Active Tool : None

Description	Value	Unit
<u>Tool Program Name</u>	Magnet	
Tool Program Tool Type	Magnet	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Disabled	
Tool Program Pump Flow Control Mode	Combined Flow	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	21000	kPa
Variable Relief Valve #2 Pressure	0	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	

Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	80,0	Deg C
Attachment Valve #1 Flow Setting	0	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	One Way	
Attachment Valve #1 Maximum Extend Pressure	2000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	2000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #2 Maximum Extend Pressure	0	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #2	4000	kPa
Attachment Valve #2 Open Time	0,20	sec
Attachment Valve #2 Close Time	0,20	sec
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	One Way	
Attachment Valve #3 Maximum Extend Pressure	4000	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec

Description	Value	Unit
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<b>Tool Program Name</b>	<b>H180DS</b>	
Tool Program Tool Type	Hammer	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Combined Flow	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	21000	kPa
Variable Relief Valve #2 Pressure	0	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	80,0	Deg C
Attachment Valve #1 Flow Setting	250	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	One Way	
Attachment Valve #1 Maximum Extend Pressure	4000	kPa

Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #2 Maximum Extend Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #2	4000	kPa
Attachment Valve #2 Open Time	0,20	sec
Attachment Valve #2 Close Time	0,20	sec
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>MP40</b>	
Tool Program Tool Type	Shear	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Combined Flow	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	35000	kPa
Variable Relief Valve #2 Pressure	35000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa

F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Enabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	370	L/min
Attachment Valve #1 Multi-Operation Additional Flow	50	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	1100	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	1100	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Attachment Valve #2 Maximum Extend Pressure	4000	kPa
Attachment Valve #2 Maximum Retract Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #2	1100	kPa

Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #2	1100	kPa
Attachment Valve #2 Open Time	0,20	sec
Attachment Valve #2 Close Time	0,20	sec
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	4000	kPa
Attachment Valve #3 Maximum Retract Pressure	4000	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>ATLAS DP3300</b>	
Tool Program Tool Type	Shear	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Disabled	
Tool Program Pump Flow Control Mode	Combined Flow	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	32000	kPa
Variable Relief Valve #2 Pressure	32000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa

Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	360	L/min
Attachment Valve #1 Multi-Operation Additional Flow	390	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	3500	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	3500	kPa
Attachment Valve #1 Open Time	0,07	sec
Attachment Valve #1 Close Time	0,15	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Attachment Valve #2 Maximum Extend Pressure	4000	kPa
Attachment Valve #2 Maximum Retract Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #2	1200	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #2	1200	kPa
Attachment Valve #2 Open Time	0,07	sec
Attachment Valve #2 Close Time	0,15	sec
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	

Attachment Valve #3 Maximum Extend Pressure	4000	kPa
Attachment Valve #3 Maximum Retract Pressure	4000	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>GRABB</b>	
Tool Program Tool Type	Grapple	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Pump #2	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	32000	kPa
Variable Relief Valve #2 Pressure	32000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa

Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	200	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	4000	kPa
Attachment Valve #3 Maximum Retract Pressure	4000	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>Tommel venstre</b>	
Tool Program Tool Type	Bucket Thumb	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Combined Flow	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%

Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	21000	kPa
Variable Relief Valve #2 Pressure	28000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Enabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	360	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec



Attachment Valve #1 Tool Flow Direction	Normal	
Attachment Valve #2 Maximum Extend Pressure	4000	kPa
Attachment Valve #2 Maximum Retract Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #2	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #2	4000	kPa
Attachment Valve #2 Open Time	0,20	sec
Attachment Valve #2 Close Time	0,20	sec
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>THUMB 1P</b>	
Tool Program Tool Type	Bucket Thumb	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Pump #2	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	19300	kPa
Variable Relief Valve #2 Pressure	19300	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa

F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	200	L/min
Attachment Valve #1 Multi-Operation Additional Flow	50	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec

Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>ATLAS 4200</b>	
Tool Program Tool Type	Hammer	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Pump #2	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	25000	kPa
Variable Relief Valve #2 Pressure	0	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	280	L/min

Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	One Way	
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>MP 345</b>	
Tool Program Tool Type	Shear	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Combined Flow	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	35000	kPa
Variable Relief Valve #2 Pressure	35000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa

Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	360	L/min
Attachment Valve #1 Multi-Operation Additional Flow	360	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Attachment Valve #2 Maximum Extend Pressure	0	kPa
Attachment Valve #2 Maximum Retract Pressure	0	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #2	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #2	4000	kPa

Attachment Valve #2 Open Time	0,20	sec
Attachment Valve #2 Close Time	0,20	sec
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	2000	kPa
Attachment Valve #3 Maximum Retract Pressure	2000	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>2P 2WAY</b>	
Tool Program Tool Type	Other	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Combined Flow	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	40000	kPa
Variable Relief Valve #2 Pressure	40000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Enabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa

Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	250	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Attachment Valve #2 Maximum Extend Pressure	4000	kPa
Attachment Valve #2 Maximum Retract Pressure	4000	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #2	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #2	4000	kPa
Attachment Valve #2 Open Time	0,20	sec
Attachment Valve #2 Close Time	0,20	sec
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa

Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>0</b>	
Tool Program Tool Type	Bucket	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Pump #1	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	40000	kPa
Variable Relief Valve #2 Pressure	40000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C



Attachment Valve #1 Flow Setting	0	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	0	kPa
Attachment Valve #1 Maximum Retract Pressure	0	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>0</b>	
Tool Program Tool Type	Bucket	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Pump #1	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	40000	kPa

Variable Relief Valve #2 Pressure	40000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	0	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	0	kPa
Attachment Valve #1 Maximum Retract Pressure	0	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	

Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	0	
Tool Program Tool Type	Bucket	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Pump #1	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	40000	kPa
Variable Relief Valve #2 Pressure	40000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa

Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	0	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	0	kPa
Attachment Valve #1 Maximum Retract Pressure	0	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>0</b>	
Tool Program Tool Type	Bucket	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Pump #1	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%

Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	40000	kPa
Variable Relief Valve #2 Pressure	40000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	0	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	0	kPa
Attachment Valve #1 Maximum Retract Pressure	0	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec

Attachment Valve #1 Tool Flow Direction	Normal	
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>0</b>	
Tool Program Tool Type	Bucket	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Pump #1	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	40000	kPa
Variable Relief Valve #2 Pressure	40000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa

Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	0	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	0	kPa
Attachment Valve #1 Maximum Retract Pressure	0	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
Tool Program Name	0	
Tool Program Tool Type	Bucket	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	

Tool Program Pump Flow Control Mode	Pump #1	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	40000	kPa
Variable Relief Valve #2 Pressure	40000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	0	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	0	kPa
Attachment Valve #1 Maximum Retract Pressure	0	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa



Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
Tool Program Name	0	
Tool Program Tool Type	Bucket	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Pump #1	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	40000	kPa
Variable Relief Valve #2 Pressure	40000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa

Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	0	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	0	kPa
Attachment Valve #1 Maximum Retract Pressure	0	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
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<b>Tool Program Name</b>	<b>0</b>	
Tool Program Tool Type	Bucket	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Pump #1	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	40000	kPa
Variable Relief Valve #2 Pressure	40000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	0	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	0	kPa

Attachment Valve #1 Maximum Retract Pressure	0	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
<b>Tool Program Name</b>	<b>0</b>	
Tool Program Tool Type	Bucket	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Pump #1	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	40000	kPa
Variable Relief Valve #2 Pressure	40000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa

Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	0	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min
Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	0	kPa
Attachment Valve #1 Maximum Retract Pressure	0	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec

Attachment Valve #3 Tool Flow Direction	Normal	
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Description	Value	Unit
<b>Tool Program Name</b>	0	
Tool Program Tool Type	Bucket	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Fuel Economy Mode Enable Status	Enabled	
Tool Program Pump Flow Control Mode	Pump #1	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	0	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	30	%
Variable Relief Valve #1 Pressure	40000	kPa
Variable Relief Valve #2 Pressure	40000	kPa
F2 Type Valve Max Flow Derate Pressure	4000	kPa
F2 Type Valve Flow Derate Start Pressure	40000	kPa
F2 Type Valve Flow Derate End Pressure	40000	kPa
Enhanced Multiple Operation Attachment Valve Limit Enable Status	Disabled	
Single Pump Mode Maximum Extend Pilot Pressure for Attachment Valve	4000	kPa
Single Pump Mode Maximum Retract Pilot Pressure for Attachment Valve	4000	kPa
Boom Cylinder Retract Speed Limit Start Pilot Pressure	4000	kPa
Boom Cylinder Retract Speed Limit Maximum Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Start Pilot Pressure	4000	kPa
Stick Cylinder Extend Speed Limit Maximum Pilot Pressure	4000	kPa
Boom Down Regeneration Valve Maximum Pilot Pressure	4000	kPa
Tool Program Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	0	L/min
Attachment Valve #1 Multi-Operation Additional Flow	0	L/min

Tool Program Attachment Valve #1 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #1 Maximum Extend Pressure	0	kPa
Attachment Valve #1 Maximum Retract Pressure	0	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	4000	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	4000	kPa
Attachment Valve #1 Open Time	0,20	sec
Attachment Valve #1 Close Time	0,20	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Tool Program Attachment Valve #3 One Way/ Two Way Valve Mode	Two Way	
Attachment Valve #3 Maximum Extend Pressure	0	kPa
Attachment Valve #3 Maximum Retract Pressure	0	kPa
Attachment Valve #3 Open Time	0,20	sec
Attachment Valve #3 Close Time	0,20	sec
Attachment Valve #3 Tool Flow Direction	Normal	

### Linkage Configuration - Machine Control 349E/F & 352F (HEX 352F)

#### Bucket - DISABLE

From	To	Distance
G	H	0,0 mm
G	J	0,0 mm
G	Q	0,0 mm
J	Q	0,0 mm
J	J1	0,0 mm

#### Boom Linkage - DISABLE

From	To	Distance
A	B	0,0 mm
A	T	0,0 mm
A	R	0,0 mm
B	T	0,0 mm
B	R	0,0 mm

## Stick Linkage - DISABLE

From	To	Distance
B	C	0,0 mm
B	D	0,0 mm
B	G	0,0 mm
B	S	0,0 mm
C	D	0,0 mm
C	G	0,0 mm
C	S	0,0 mm
D	G	0,0 mm
B	L	0,0 mm
L	M	0,0 mm

## Idler Link - DISABLE

From	To	Distance
F	D	0,0 mm

## Power Link - DISABLE

From	To	Distance
F	H	0,0 mm

## C13 (T4F16107)

Parameter	Value
Equipment ID	NDC80069
Engine Serial Number	T4F16107
ECM Part Number	4884877-01
ECM Serial Number	05698548QM
Software Group Part Number	5804839-00
Software Group Release Date	APR20
Operator Inducement Regulation Configuration	European Union (EU)

## Logged Diagnostic Codes [Diagnostic Clock = 4939 hours] - C13 (T4F16107)

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

## Logged Event Codes [Diagnostic Clock = 4939 hours] - C13 (T4F16107)

Code	Description	Occ.	First	Last
E1093 (1)	Low EGR Differential Pressure	9	4931	4934

## Active Diagnostic Codes - C13 (T4F16107)

Code	Description
No Active Diagnostic Codes	

## Active Event Codes - C13 (T4F16107)

Code	Description
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No Active Events	
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### System Communication Status - Active Problems - C13 (T4F16107)

ECMs	Detected Problem	Data Link	Diagnostic Information
No issues were reported			

### System Communication Status - Inactive Problems - C13 (T4F16107)

ECMs	Detected Problem	Data Link	Diagnostic Information
No issues were reported			

### Current Totals - C13 (T4F16107)

Description	Value	Unit
Total Idle Time	774:18	hours
Total Fuel	85268	L
Total Engine #1 Fuel	82087	L
Total Idle Fuel	5142	L
Total Max Fuel	255277	L
Engine Lifetime Hours	4941,9	hours
Average Load Factor	32	%
Engine Starts	1923	
Lifetime Total Engine Revolutions	273386956	rev
Total Operating Hours	4940	hours
Operator Inducement Emergency Override Total Activations	0	
Operator Inducement Emergency Override Total Resets	0	
Total Engine Idle Shutdown Count	297	
Total Engine Idle Shutdown Overrides Count	138	
Total Delayed Engine Shutdown Count	206	
Total Delayed Engine Shutdown Overrides Count	2	
Starts/Hour	0,39	
Average RPM	922,00	rpm
Percentage Idle Time	15,66	%
Average Fuel Rate	17,25	L/h
Overall Load Factor	33	%
SCR Operator Inducement Emergency Override Total Activation Time	0	sec

### Configuration - C13 (T4F16107)

Description	Value	Unit
Equipment ID	NDC80069	

Engine Serial Number	T4F16107	
ECM Part Number	4884877-01	
ECM Serial Number	05698548QM	
Software Group Part Number	5804839-00	
Software Group Release Date	APR20	
Rating Number	1	
Rated Power	317 kW at 1800 rpm	
Rated Peak Torque	1814 N-m at 1650 rpm	
Ether Solenoid Configuration	Continuous Flow Solenoid	
Crankcase Pressure Sensor Installation Status	Installed	
Ambient Air Temperature Sensor Installation Status	Not Installed	
Engine Coolant Dual Pressure Sensors Installation Status	Not Installed	
Engine Warm Up Elevated Idle Feature Enable Status	Enabled	
Engine Warm Up Elevated Idle Delay Time	10,0	min
Engine Idle Shutdown Enable Status	Disabled	
Engine Idle Shutdown Delay Time	10,0	min
Delayed Engine Shutdown Enable Status	Enabled	
Delayed Engine Shutdown Maximum Time	10,0	min
Engine Fan Type Configuration	Viscous Clutch #1	
ARD Manual Disable Status	Not Disabled	
High Soot Load Aftertreatment Protection Enable Status	Enabled	
Operator Inducement Progress Configuration	Reduced Performance	
Operator Inducement Regulation Configuration	European Union (EU)	
Operator Inducement Emergency Override Enable Status	Disabled	
Operator Inducement Emergency Override Activation	Not Activated	
Operator Final Inducement Action	Shutdown	
Delayed Engine Shutdown Aftertreatment Gas Temperature Threshold	525,0	Deg C
Aftertreatment #1 DEF Quality Sensor Installation Status	Installed	
DPF Type	Type 2	
FLS	-8	
FTS	0	
CAN Communication Protocol Write Security	Seed and Key Access	
CAN Communication Protocol Read Security	Seed and Key Access	
Total Tattletale	647	

#### Lifetime:Accumulated Time vs Intake Manifold Pressure - C13 (T4F16107)

Intake Manifold Pressure( kPa )	hours	%
<80,00	0,45	0,38

80,00-89,99	0,40	0,34
90,00-99,99	0,90	0,75
100,00-109,99	1,80	1,51
110,00-119,99	3,40	2,85
120,00-129,99	5,65	4,73
130,00-139,99	8,55	7,16
140,00-149,99	11,00	9,22
150,00-159,99	13,15	11,02
160,00-169,99	15,25	12,78
170,00-179,99	15,65	13,11
180,00-189,99	14,20	11,90
190,00-199,99	11,50	9,64
200,00-209,99	8,50	7,12
210,00-219,99	5,90	4,94
220,00-229,99	2,75	2,30
230,00-239,99	0,30	0,25
240,00-249,99	0,00	0,00
250,00-259,99	0,00	0,00
260,00-269,99	0,00	0,00
270,00-279,99	0,00	0,00
280,00-289,99	0,00	0,00
290,00-299,99	0,00	0,00
300,00-309,99	0,00	0,00
310,00-319,99	0,00	0,00
320,00-329,99	0,00	0,00
330,00-339,99	0,00	0,00
340,00-349,99	0,00	0,00
350,00-359,99	0,00	0,00
360,00-369,99	0,00	0,00
370,00-379,99	0,00	0,00
380,00-389,99	0,00	0,00
390,00-399,99	0,00	0,00
400,00-409,99	0,00	0,00
410,00-419,99	0,00	0,00
420,00-429,99	0,00	0,00
430,00-439,99	0,00	0,00
440,00-449,99	0,00	0,00
450,00-459,99	0,00	0,00
460,00-469,99	0,00	0,00
470,00-479,99	0,00	0,00
480,00-489,99	0,00	0,00
490,00-499,99	0,00	0,00
500,00-509,99	0,00	0,00
510,00-519,99	0,00	0,00
520,00-529,99	0,00	0,00
530,00-539,99	0,00	0,00
540,00-549,99	0,00	0,00
550,00-559,99	0,00	0,00

560,00-569,99	0,00	0,00
570,00-579,99	0,00	0,00
580,00-589,99	0,00	0,00
590,00-600,00	0,00	0,00
>600,00	0,00	0,00

**Lifetime:Accumulated Time vs Engine Coolant Temperature - C13 (T4F16107)**

Engine Coolant Temperature( Deg C )	hours	%
<0,00	0,40	0,01
0,00-4,99	0,15	0,00
5,00-9,99	0,65	0,02
10,00-14,99	2,15	0,05
15,00-19,99	4,50	0,11
20,00-24,99	7,10	0,18
25,00-29,99	9,80	0,25
30,00-34,99	11,85	0,30
35,00-39,99	13,05	0,33
40,00-44,99	12,80	0,33
45,00-49,99	12,90	0,33
50,00-54,99	13,85	0,35
55,00-59,99	15,00	0,38
60,00-64,99	17,65	0,45
65,00-69,99	21,90	0,56
70,00-74,99	29,45	0,75
75,00-79,99	1323,05	33,60
80,00-84,99	2347,50	59,62
85,00-89,99	92,95	2,36
90,00-94,99	0,40	0,01
95,00-99,99	0,10	0,00
100,00-104,99	0,00	0,00
105,00-109,99	0,00	0,00
110,00-114,99	0,00	0,00
115,00-119,99	0,00	0,00
120,00-124,99	0,00	0,00
125,00-129,99	0,00	0,00
130,00-134,99	0,00	0,00
135,00-139,99	0,00	0,00
140,00-144,99	0,00	0,00
145,00-150,00	0,00	0,00
>150,00	0,00	0,00

**Engine Overspeed Histogram: Accumulated Time (sec) vs Engine Speed - C13 (T4F16107)**

Engine Speed( rpm )	Count	%
2500,0-2599,9	0	0,00
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 - C13 (T4F16107)**

rpm	<600,0	600,0-649,9	650,0-699,9	700,0-749,9	750,0-799,9	800,0-849,9	850,0-899,9	900,0-949,9	950,0-999,9
%									
<0,0	0,35	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0,0-9,9	0,00	0,00	0,00	0,00	0,00	0,00	0,05	0,05	252,65
10,0-19,9	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,05	1,35
20,0-29,9	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,05	0,80
30,0-39,9	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,05	0,90
40,0-49,9	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,05	0,55
50,0-59,9	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,05	0,25
60,0-69,9	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
70,0-79,9	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
80,0-89,9	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
90,0-100,0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
>100,0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Total	0,35	0,00	0,00	0,00	0,00	0,00	0,05	0,30	256,50

**Lifetime:Accumulated Time vs Engine Speed And Percent Engine Load at Current Engine Speed - C13 (T4F16107)**

rpm	1000,0-1049,9	1050,0-1099,9	1100,0-1149,9	1150,0-1199,9	1200,0-1249,9	1250,0-1299,9	1300,0-1349,9	1350,0-1399,9	1400,0-1449,9
%									
<0,0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0,0-9,9	12,50	538,95	1,85	1,30	3,20	1,15	1,35	5,70	2,90
10,0-19,9	0,15	0,15	0,45	0,05	1,75	0,10	0,65	4,85	2,05
20,0-29,9	0,15	0,10	0,30	0,05	1,05	0,10	0,45	2,80	1,85
30,0-39,9	0,15	0,10	0,30	0,05	1,60	0,15	0,40	6,40	1,65
40,0-49,9	0,15	0,10	0,35	0,05	1,10	0,15	0,45	8,70	1,55
50,0-59,9	0,05	0,00	0,05	0,05	0,85	0,15	0,30	2,60	1,15



40,0-49,9	3,35	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
50,0-59,9	2,80	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
60,0-69,9	2,90	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
70,0-79,9	2,50	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
80,0-89,9	2,10	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
90,0-100,0	1,75	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
>100,0	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Total	24,10	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

**Lifetime:Accumulated Time vs Engine Speed And Percent Engine Load at Current Engine Speed - C13 (T4F16107)**

rpm	2350,0-2400,0	>2400,0	Total
%			
<0,0	0,00	0,00	0,35
0,0-9,9	0,00	0,00	1028,80
10,0-19,9	0,00	0,00	410,35
20,0-29,9	0,00	0,00	397,20
30,0-39,9	0,00	0,00	618,35
40,0-49,9	0,00	0,00	411,10
50,0-59,9	0,00	0,00	305,25
60,0-69,9	0,00	0,00	237,30
70,0-79,9	0,00	0,00	160,85
80,0-89,9	0,00	0,00	104,80
90,0-100,0	0,00	0,00	119,30
>100,0	0,00	0,00	0,00
Total	0,00	0,00	3793,65

**Lifetime:Accumulated Time vs Intake Manifold Air Temperature - C13 (T4F16107)**

Intake Manifold Air Temperature( Deg C )	hours	%
<0,00	12,25	0,31
0,00-4,99	35,60	0,90
5,00-9,99	111,70	2,84
10,00-14,99	223,85	5,69
15,00-19,99	259,05	6,58
20,00-24,99	313,40	7,96
25,00-29,99	411,50	10,45
30,00-34,99	518,20	13,16
35,00-39,99	617,50	15,68
40,00-44,99	612,05	15,55
45,00-49,99	500,35	12,71
50,00-54,99	256,85	6,52
55,00-59,99	58,65	1,49
60,00-64,99	5,85	0,15

65,00-69,99	0,30	0,01
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	0,00	0,00
100,00-104,99	0,00	0,00
105,00-109,99	0,00	0,00
110,00-114,99	0,00	0,00
115,00-120,00	0,00	0,00
>120,00	0,00	0,00

**High Exhaust Temperature Prevention Derate Time - C13 (T4F16107)**

Deg C	<40,00	40,00-44,99	45,00-49,99	50,00-54,99	55,00-59,99	60,00-64,99	65,00-69,99	70,00-74,99	75,00-79,99
kPa									
<60,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
60,00-67,99	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
68,00-75,99	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
76,00-83,99	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
84,00-91,99	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
92,00-100,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
>100,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Total	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

**High Exhaust Temperature Prevention Derate Time - C13 (T4F16107)**

Deg C	80,00-84,99	85,00-89,99	90,00-94,99	95,00-100,00	>100,00	Total
kPa						
<60,00	0,00	0,00	0,00	0,00	0,00	0,00
60,00-67,99	0,00	0,00	0,00	0,00	0,00	0,00
68,00-75,99	0,00	0,00	0,00	0,00	0,00	0,00
76,00-83,99	0,00	0,00	0,00	0,00	0,00	0,00
84,00-91,99	0,00	0,00	0,00	0,00	0,00	0,00
92,00-100,00	0,00	0,00	0,00	0,00	0,00	0,00
>100,00	0,00	0,00	0,00	0,00	0,00	0,00
Total	0,00	0,00	0,00	0,00	0,00	0,00

**Lifetime:Accumulated Time vs Engine Speed - C13 (T4F16107)**

Engine Speed( rpm )	hours	%
<550,0	0,40	0,01
550,0-599,9	0,00	0,00
600,0-649,9	0,00	0,00
650,0-699,9	0,00	0,00
700,0-749,9	0,00	0,00



750,0-799,9	0,00	0,00
800,0-849,9	0,05	0,00
850,0-899,9	0,05	0,00
900,0-949,9	0,25	0,01
950,0-999,9	316,50	8,04
1000,0-1049,9	23,20	0,59
1050,0-1099,9	568,55	14,44
1100,0-1149,9	6,70	0,17
1150,0-1199,9	3,25	0,08
1200,0-1249,9	12,80	0,33
1250,0-1299,9	2,75	0,07
1300,0-1349,9	4,25	0,11
1350,0-1399,9	36,20	0,92
1400,0-1449,9	13,75	0,35
1450,0-1499,9	109,65	2,79
1500,0-1549,9	39,10	0,99
1550,0-1599,9	345,15	8,77
1600,0-1649,9	258,20	6,56
1650,0-1699,9	252,90	6,42
1700,0-1749,9	352,20	8,95
1750,0-1799,9	196,45	4,99
1800,0-1849,9	815,45	20,71
1850,0-1899,9	555,15	14,10
1900,0-1949,9	24,10	0,61
1950,0-1999,9	0,10	0,00
2000,0-2049,9	0,00	0,00
2050,0-2099,9	0,00	0,00
2100,0-2149,9	0,00	0,00
2150,0-2199,9	0,00	0,00
2200,0-2249,9	0,00	0,00
2250,0-2299,9	0,00	0,00
2300,0-2349,9	0,00	0,00
2350,0-2399,9	0,00	0,00
2400,0-2449,9	0,00	0,00
2450,0-2499,9	0,00	0,00
2500,0-2549,9	0,00	0,00
2550,0-2599,9	0,00	0,00
2600,0-2649,9	0,00	0,00
2650,0-2699,9	0,00	0,00
2700,0-2749,9	0,00	0,00
2750,0-2799,9	0,00	0,00
2800,0-2849,9	0,00	0,00
2850,0-2899,9	0,00	0,00
2900,0-2949,9	0,00	0,00
2950,0-2999,9	0,00	0,00
3000,0-3049,9	0,00	0,00
3050,0-3099,9	0,00	0,00
3100,0-3149,9	0,00	0,00



**Lifetime:Accumulated Time vs DPF #1 Soot Loading Percent And ARD Manual Disable Status - C13 (T4F16107)**

%	<40	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119
ARD Manual Disable Status									
0	1494,80	528,65	571,70	574,70	781,25	34,95	0,00	0,00	0,00
1	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
Total	1494,80	528,65	571,70	574,70	781,25	34,95	0,00	0,00	0,00

**Lifetime:Accumulated Time vs DPF #1 Soot Loading Percent And ARD Manual Disable Status - C13 (T4F16107)**

%	120-129	130-140	>140	Total
ARD Manual Disable Status				
0	0,00	0,00	0,00	3986,05
1	0,00	0,00	0,00	0,00
Total	0,00	0,00	0,00	3986,05

**Injector Trim Calibration - C13 (T4F16107)**

Injector	Serial Number	File Version
Injector1	000000005C0044950540	9
Injector2	000000005C004495074E	9
Injector3	000000005C0044950863	9
Injector4	000000005C004495015C	9
Injector5	000000005C0044951876	9
Injector6	000000005C0044951555	9

**Monitoring System - C13 (T4F16107)**

Description	State	Trip Point	Delay Time
<b>Engine Overspeed</b>			
Least Severe (1)	Always On	2600 rpm	0 sec
Most Severe (3)	Always On	2800 rpm	0 sec
<b>High Air Inlet #1 Differential Pressure</b>			
Least Severe (1)	Always On	6,5 kPa	0 sec
Moderate Severity (2)	Always On	6,5 kPa	0 sec
<b>High Engine Coolant Temperature</b>			
Least Severe (1)	Always On	109 Deg C	10 sec
Moderate Severity (2)	Always On	111 Deg C	20 sec
<b>High Fuel Temperature</b>			
Moderate Severity (2)	Always On	79,0 Deg C	30 sec
<b>High Fuel/Water Separator Water Level</b>			
Least Severe (1)	Always On	None	5 sec
Moderate Severity (2)	Always On	None	1800 sec

<b>High Intake Manifold Air Temperature</b>			
Least Severe (1)	Always On	115,0 Deg C	4 sec
Moderate Severity (2)	Always On	120,0 Deg C	4 sec
<b>Low Engine Oil Pressure</b>			
Least Severe (1)	Always On	None	8 sec
Most Severe (3)	Always On	None	4 sec

**Engine Derate History - C13 (T4F16107)**

<b>Engine Derate Source</b>	<b>Engine Derate State</b>	<b>Total Operating Hours</b>	<b>Event Duration</b>
Diagnostic/Event	Engine Derate Start Service Hours	4932,12 hours	0 sec
Diagnostic/Event	Engine Derate End Service Hours	4932,12 hours	1 sec
Diagnostic/Event	Engine Derate Start Service Hours	4932,13 hours	0 sec
Diagnostic/Event	Engine Derate End Service Hours	4932,13 hours	1 sec
Diagnostic/Event	Engine Derate Start Service Hours	4933,08 hours	0 sec
Diagnostic/Event	Engine Derate End Service Hours	4933,08 hours	1 sec
Diagnostic/Event	Engine Derate Start Service Hours	4933,08 hours	0 sec
Diagnostic/Event	Engine Derate End Service Hours	4933,08 hours	1 sec
Diagnostic/Event	Engine Derate Start Service Hours	4933,25 hours	0 sec
Diagnostic/Event	Engine Derate End Service Hours	4933,25 hours	1 sec
Diagnostic/Event	Engine Derate Start Service Hours	4933,49 hours	0 sec
Diagnostic/Event	Engine Derate End Service Hours	4933,49 hours	1 sec
Diagnostic/Event	Engine Derate Start Service Hours	4933,49 hours	0 sec
Diagnostic/Event	Engine Derate End Service Hours	4933,49 hours	1 sec
Diagnostic/Event	Engine Derate Start Service Hours	4933,49 hours	0 sec
Diagnostic/Event	Engine Derate End Service Hours	4933,49 hours	1 sec
Diagnostic/Event	Engine Derate Start Service Hours	4933,49 hours	0 sec
Diagnostic/Event	Engine Derate End Service Hours	4933,49 hours	1 sec
Diagnostic/Event	Engine Derate Start Service Hours	4933,50 hours	0 sec
Invalid GID	Invalid GID	0,00 hours	0 sec

## Engine Forced Shutdown History - C13 (T4F16107)

### History Data

Error - Unable to retrieve the history data from the ECM.

## Service Test History - C13 (T4F16107)

### History Data

No history data available.

## Product Link Pro (NDC80069)

Parameter	Value
Product ID	NDC80069
Machine Serial Number	
Equipment ID	
ECM Part Number	4402105-18
ECM Serial Number	0319S451YG
Software Group Part Number	6226399-00
Software Group Release Date	Dec2021
Software Group Description	PL641_2021_12_21
Application Software Part Number	

## Logged Diagnostic Codes [Total Operating Hours = 4939 hours] - Product Link Pro (NDC80069)

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

## Logged Event Codes [Total Operating Hours = 4939 hours] - Product Link Pro (NDC80069)

Code	Description	Occ.	First	Last
No Logged Event Codes				

## Active Diagnostic Codes - Product Link Pro (NDC80069)

Code	Description
No Active Diagnostic Codes	

## Active Event Codes - Product Link Pro (NDC80069)

Code	Description
No Active Events	

## Current Totals - Product Link Pro (NDC80069)

Description	Value	Unit
Total Operating Hours	4939,8	hours
Total Distance	2,40	km

### Configuration - Product Link Pro (NDC80069)

Description	Value	Unit
Product ID	NDC80069	
Equipment ID		
Machine Serial Number		
Maintenance Mode	Off	
Security System Machine Normal Operation Restore	Disabled or Not Installed	
Security System Tamper Resistant Configuration	Not Installed	