

Cat Electronic Technician 2023A v1.0

Product Status Report

21-3-2024 08:57

Product Status Report

Parameter	Value
Product ID	NAZ02409
Equipment ID	NAZ02409
Comments	

Monitor System

Parameter	Value
ECM Part Number	3095711-07
Software Group Part Number	4848027-00
Software Group Release Date	JUL2015
Software Group Description	E HEX MONITOR Application

Machine Control 320E/F & 323E/F (NAZ02409)

Parameter	Value
Product ID	NAZ02409
ECM Part Number	3095710-04
ECM Serial Number	0086F006EV
Software Group Part Number	4873705-00
Software Group Release Date	JUN2015
Software Group Description	320E HEX CONTROL

Logged Diagnostic Codes [Diagnostic Clock = 8126 hours] - Machine Control 320E/F & 323E/F (NAZ02409)

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

Logged Event Codes [Diagnostic Clock = 8126 hours] - Machine Control 320E/F & 323E/F (NAZ02409)

Code	Description	Occ.	First	Last
No Logged Event Codes				

Active Diagnostic Codes - Machine Control 320E/F & 323E/F (NAZ02409)

Code	Description
No Active Diagnostic Codes	

Active Event Codes - Machine Control 320E/F & 323E/F (NAZ02409)

Code	Description
No Active Events	

Current Totals - Machine Control 320E/F & 323E/F (NAZ02409)

Description	Value	Unit
Total Operating Hours	8127	hours
Engine Maintenance Hours	8125	hours
Engine Oil Hours	5512	hours
Engine Oil Filter Hours	6229	hours
Engine Coolant Hours	3821	hours
Fuel/ Water Separator Hours	6229	hours
Fuel Tank Cap Hours	6229	hours
Crankcase Ventilation Filter Hours	6229	hours
Fuel Pump Screen Filter Hours	8125	hours
Hydraulic Pump Hours	8125	hours
Hydraulic Pilot Oil Filter Hours	6229	hours
Hydraulic Case Drain Oil Filter Hours	6229	hours
Return Hydraulic Oil Filter Hours	6229	hours
Attachment Hydraulic Oil Filter Hours	5873	hours
Hydraulic Oil Hours	8125	hours
Final Drive Oil Hours	6229	hours
Swing Motor Hours	3433	hours
Swing Drive Oil Hours	6229	hours
Travel Motor Hours	1063	hours
Tool #1 Hours	7	hours
Tool #2 Hours	1	hours
Tool #3 Hours	2	hours
Tool #4 Hours	0	hours
Tool #5 Hours	0	hours
Tool #6 Hours	0	hours
Tool #7 Hours	19	hours
Tool #8 Hours	187	hours
Tool #9 Hours	0	hours
Tool #10 Hours	2	hours
Return Hydraulic Oil Filter Bypass Hours	79,7	hours
Return Hydraulic Oil Filter Bypass at Cold Temperature Hours	29,2	hours
Hours of Operation at High Hydraulic Pressure	143,8	hours
Hours of Operation at Relief Hydraulic Pressure	57,2	hours

Configuration - Machine Control 320E/F & 323E/F (NAZ02409)

Description	Value	Unit
Product ID	NAZ02409	
Hydraulic Power Mode	Economy	
Hydraulic Power High Mode Selection Display Enable Status	Enabled	
Hydraulic Power Standard Mode Selection Display Enable Status	Disabled	
Lighting Shutdown Timer Duration	1	min
Travel Alarm Installation Status	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	21000	kPa
Fuel Tank Maximum Volume	356	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	Unavailable	
Monitoring System Configuration Code	Unavailable	
Implement Pump Configuration Code	Unavailable	
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 - 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	
Heavy Attachment Control Feature Installation Status	Not Installed	

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	
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	Unavailable	
Left Joystick Switch #1 Control Mode	No valve controlled	
Left Joystick Switch #2 Control Mode	No valve controlled	
Right Joystick Switch #1 Control Mode	Momentary - Valve #1 Extend	
Right Joystick Switch #2 Control Mode	No valve controlled	
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	18500	kPa
Travel Speed Shift High Pressure	36000	kPa
One Touch Engine Speed Setting	970	rpm
AESC Setting	970	rpm
AESC Delay Time	5,0	sec
Throttle Dial Position 1 Engine Speed	800	rpm
Throttle Dial Position 2 Engine Speed	970	rpm
Throttle Dial Position 3 Engine Speed	1110	rpm
Throttle Dial Position 4 Engine Speed	1240	rpm
Throttle Dial Position 5 Engine Speed	1300	rpm
Throttle Dial Position 6 Engine Speed	1330	rpm
Throttle Dial Position 7 Engine Speed	1360	rpm
Throttle Dial Position 8 Engine Speed	1400	rpm
Throttle Dial Position 9 Engine Speed	1500	rpm
Throttle Dial Position 10 Engine Speed	1600	rpm
Throttle Dial Position 1 Hydraulic System Torque Percentage	25,0	%
Throttle Dial Position 2 Hydraulic System Torque Percentage	44,0	%
Throttle Dial Position 3 Hydraulic System Torque Percentage	61,0	%
Throttle Dial Position 4 Hydraulic System Torque Percentage	69,0	%
Throttle Dial Position 5 Hydraulic System Torque Percentage	80,0	%
Throttle Dial Position 6 Hydraulic System Torque Percentage	84,0	%

Throttle Dial Position 7 Hydraulic System Torque Percentage	86,0	%
Throttle Dial Position 8 Hydraulic System Torque Percentage	90,0	%
Throttle Dial Position 9 Hydraulic System Torque Percentage	95,0	%
Throttle Dial Position 10 Hydraulic System Torque Percentage	100,0	%
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	0	hours
Fuel Pump Screen Filter Recommended Maintenance Interval	3000	hours
Tertiary Fuel Filter Recommended Maintenance Interval	0	hours
Fuel Tank Cap Recommended Maintenance Interval	1000	hours
Crankcase Ventilation Filter Recommended Maintenance Interval	1500	hours
Aftertreatment Spark Plug Recommended Maintenance Interval	0	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	100	hours
Final Drive Oil Recommended Maintenance Interval	2000	hours
Hydraulic Oil Recommended Maintenance Interval	6000	hours
Swing Drive Oil Recommended Maintenance Interval	1000	hours
Crane System Installation Status	Not Installed	
Undercarriage Length Configuration	Standard	
Grade Control System Installation Status	Not Installed	
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	0	

Calibration Status - Machine Control 320E/F & 323E/F (NAZ02409)

Calibration	Status	Last Successful Completion
PRV - Variable Relief Pressure Calibration Solenoid 2	Success	0,7 hours
PRV - Variable Relief Pressure Calibration Solenoid 1	Success	0,7 hours
Tilt Bucket Angle Sensor Calibration	Unknown	Never Successfully Calibrated
Stick Angle Calibration	Unknown	Never Successfully Calibrated
Boom Offset Left Pilot Pressure Limit Solenoid Cal	Unknown	Never Successfully Calibrated
Boom Offset Right Pilot Pressure Limit Solenoid Cal	Unknown	Never Successfully Calibrated
Stick Cylinder Extend Pilot Pressure Limit Solenoid Cal	Success	0,5 hours
Stick Cylinder Retract Pilot Pressure Limit Solenoid Cal	Not Calibrated	Never Successfully Calibrated
Boom Cylinder Retract Limit Solenoid Calibration	Success	0,5 hours
Boom Cylinder Extend Pilot Pressure Limit Solenoid Cal	Not Calibrated	Never Successfully Calibrated
PRV - Power Shift Pressure Calibration	Success	0,4 hours
Pump #2 Flow Limitation Pressure Solenoid Calibration - Flow	Success	0,6 hours
Pump #1 Flow Limitation Pressure Solenoid Calibration - Flow	Success	0,6 hours

Pump #2 Flow Limitation Pressure Solenoid Calibration - Pres	Not Calibrated	Never Successfully Calibrated
Pump #1 Flow Limitation Pressure Solenoid Calibration - Pres	Not Calibrated	Never Successfully Calibrated
Grade Control Bucket Measure Up Calibration	Unknown	Never Successfully Calibrated
Right Attachment Pedal Calibration	Not Calibrated	Never Successfully Calibrated
Left Attachment Pedal Calibration	Not Calibrated	Never Successfully Calibrated
Right Joystick Thumbwheel Calibration	Success	0,2 hours
Left Joystick Thumbwheel Calibration	Success	0,2 hours
Hoe Bucket Angle Calibration	Unknown	Never Successfully Calibrated
Directional Heading Sensor Calibration	Unknown	Never Successfully Calibrated
Chassis Angle Sensor Calibration	Unknown	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	0,4 hours
Boom Angle Calibration	Unknown	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	0,5 hours
Attachment Valve #3 Extend	Success	0,5 hours
Attachment Valve #2 Retract	Success	0,5 hours
Attachment Valve #2 Extend	Success	0,5 hours
Attachment Valve #1 Retract	Success	0,4 hours
Attachment Valve #1 Extend	Success	0,4 hours

Tool Configuration - Machine Control 320E/F & 323E/F (NAZ02409)

Active Tool : 0

Description	Value	Unit
Tool Program Name	H115S	
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	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	115	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 #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
Tool Program Name	H120CS	
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	150	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
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
Tool Program Name	H130S	
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	195	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
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
Tool Program Name	MP15 / P315	
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	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	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	150	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	
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
Tool Program Name	S320B	
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	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	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	150	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	
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
Tool Program Name	S340B	
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	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	300	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	
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
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
Tool Program Name	G315B	
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	50	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	50	%
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	100	L/min
Attachment Valve #1 Multi-Operation Additional Flow	90	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	0,40	sec
Attachment Valve #1 Close Time	0,40	sec
Attachment Valve #1 Tool Flow Direction	Normal	
Attachment Valve #3 Maximum Extend Pressure	2120	kPa
Attachment Valve #3 Maximum Retract Pressure	2120	kPa
Attachment Valve #3 Open Time	0,40	sec
Attachment Valve #3 Close Time	0,40	sec
Attachment Valve #3 Tool Flow Direction	Normal	

Description	Value	Unit
Tool Program Name	NGT	
Tool Program Tool Type	Tilt Bucket	
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	28000	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	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	70	L/min
Attachment Valve #1 Multi-Operation Additional Flow	30	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 #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	
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Description	Value	Unit
Tool Program Name	CVP110	
Tool Program Tool Type	Compactor	
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	22000	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	159	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 #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
Tool Program Name	THUMB 1P	
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	1000	kPa
F2 Type Valve Flow Derate Start Pressure	15000	kPa
F2 Type Valve Flow Derate End Pressure	19000	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	95	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	
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
Tool Program Name	BENNE PRENEUSE	
Tool Program Tool Type	Clamshell	
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	40	%
Variable Relief Valve #1 Pressure	20000	kPa
Variable Relief Valve #2 Pressure	20000	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	100	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	
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	Active
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	

C6.6 320E (C8N27810)

Parameter	Value
Equipment ID	NAZ02409
Engine Serial Number	C8N27810
ECM Part Number	3453381-05

ECM Serial Number	20747477QT
Software Group Part Number	4451332-00
Software Group Release Date	JUN13
Software Group Description	320E/323E-HEX-C6.6-TIER-4I
Calibration Identification Number	AD903_02

Logged Diagnostic Codes [Diagnostic Clock = 8126 hours] - C6.6 320E (C8N27810)

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

Logged Event Codes [Diagnostic Clock = 8126 hours] - C6.6 320E (C8N27810)

Code	Description	Occ.	First	Last
No Logged Event Codes				

Active Diagnostic Codes - C6.6 320E (C8N27810)

Code	Description
No Active Diagnostic Codes	

Active Event Codes - C6.6 320E (C8N27810)

Code	Description
No Active Events	

Current Totals - C6.6 320E (C8N27810)

Description	Value	Unit
Total Idle Time	2830:42	hours
Total Fuel	117852	L
Total Idle Fuel	7511	L
Total Max Fuel	229055	L
Engine Lifetime Hours	8125,4	hours
Average Load Factor	49	%
Engine Starts	5713	
Lifetime Total Engine Revolutions	725596728	rev
Total Operating Hours	8127	hours
Total Engine Idle Shutdown Count	2	
Total Engine Idle Shutdown Overrides Count	1	
Starts/Hour	0,70	
Average RPM	1488,34	rpm
Percentage Idle Time	34,83	%
Average Fuel Rate	14,50	L/h
Overall Load Factor	51	%

Configuration - C6.6 320E (C8N27810)

Description	Value	Unit
Equipment ID	NAZ02409	
Engine Serial Number	C8N27810	
ECM Serial Number	20747477QT	
Software Group Part Number	4451332-00	
Software Group Release Date	JUN13	
Software Group Description	320E/323E-HEX-C6.6-TIER-4I	
Rating Number	1	
Rated Power	113 kW at 1800 rpm	
Rated Peak Torque	659 N-m at 1400 rpm	
Ether Solenoid Configuration	Not Installed	
Engine Warm Up Elevated Idle Feature Enable Status	Enabled	
Engine Warm Up Elevated Idle Delay Time	10,0	min
Low System Battery Voltage Elevated Idle	Enabled	
HVAC Elevated Idle Feature Enable Status	Enabled	
Engine Idle Shutdown Enable Status	Disabled	
Engine Idle Shutdown Delay Time	5,0	min
Engine Fan Type Configuration	Viscous Clutch	
Engine Cooling Fan Map	Bell Mouth Shroud	
Factory Installed Aftertreatment #1 Identification Number	ADA053301B	
DPF #1 Soot Loading Sensing System Configuration Code	FP	
System Operating Voltage Configuration	24 Volt	
FLS	-2	
FTS	5	
CAN Communication Protocol Write Security	Seed and Key Access	
CAN Communication Protocol Read Security	Seed and Key Access	
Total Tattletale	9	

Monitoring System - C6.6 320E (C8N27810)

Description	State	Trip Point	Delay Time
Engine Overspeed			
Least Severe (1)	Always On	3000 rpm	0 sec
High Air Inlet #1 Differential Pressure			
Least Severe (1)	Always On	6,5 kPa	0 sec
Moderate Severity (2)	Always On	6,5 kPa	0 sec
High Engine Coolant Temperature			
Least Severe (1)	Always On	109 Deg C	10 sec
Moderate Severity (2)	Always On	111 Deg C	10 sec
Most Severe (3)	Always On	114 Deg C	10 sec
High Exhaust Temperature			

Least Severe (1)	Always On	178 Deg C	8 sec
Moderate Severity (2)	Always On	180 Deg C	8 sec
High Fuel/Water Separator Water Level			
Least Severe (1)	Always On	None	40 sec
Moderate Severity (2)	Always On	None	3600 sec
High Intake Manifold Air Temperature			
Least Severe (1)	Always On	123,0 Deg C	8 sec
Moderate Severity (2)	Always On	125,0 Deg C	8 sec
Low Engine Oil Pressure			
Least Severe (1)	Always On	None	0 sec
Most Severe (3)	Always On	None	0 sec

Injector Codes Calibration - C6.6 320E (C8N27810)

Injector	Code
Injector 1	731B1F1F151503140D23140000FFC7
Injector 2	73131E0E0F180C090C0E0E0000FFAE
Injector 3	73030504F8FBF9F8F001000000FF36
Injector 4	730515050A0C03050A1C150000FF42
Injector 5	730B140E121C2900081B330000FFEE
Injector 6	730F1A00080C190204121C0000FFC7