

# Cat Electronic Technician 2019C v1.0

## Product Status Report

1-2-2021 10:00

### Product Status Report

Parameter	Value
Product ID	KGF00122
Equipment ID	KGF00122
Comments	

### Machine Control 320D/323D (KGF00122)

Parameter	Value
Product ID	KGF00122
ECM Part Number	2218874-02
ECM Serial Number	00423021EM
Software Group Part Number	2705563-00
Software Group Release Date	MAR2007
Software Group Description	320D HEX CONTROL
Active Diagnostic Codes Present	Yes

### Logged Diagnostic Codes [Diagnostic Clock = 10370 hours] - Machine Control 320D/323D (KGF00122)

Code	Description	Occ.	First	Last
1593- 5	Attachment Valve #1 Extend Pressure Solenoid : Current Below Normal	1	10370	10370
1596- 5	Attachment Valve #1 Retract Pressure Solenoid : Current Below Normal	255	10259	10370

### Logged Event Codes [Diagnostic Clock = 10370 hours] - Machine Control 320D/323D (KGF00122)

Code	Description	Occ.	First	Last
No Logged Event Codes				

### Active Diagnostic Codes - Machine Control 320D/323D (KGF00122)

Code	Description
1593- 5	Attachment Valve #1 Extend Pressure Solenoid : Current Below Normal
1596- 5	Attachment Valve #1 Retract Pressure Solenoid : Current Below Normal

### Current Totals - Machine Control 320D/323D (KGF00122)

Description	Value	Unit
Total Operating Hours	10370	hours
Engine Maintenance Hours	10368	hours
Engine Oil Hours	707	hours
Engine Oil Filter Hours	707	hours

Engine Coolant Hours	3529	hours
Fuel/ Water Separator Hours	0	hours
Fuel Filter Hours	707	hours
Secondary Fuel Filter Hours	0	hours
Tertiary Fuel Filter Hours	0	hours
Fuel Tank Cap Hours	0	hours
Hydraulic Pump Hours	10368	hours
Hydraulic Pilot Oil Filter Hours	1828	hours
Hydraulic Case Drain Oil Filter Hours	1828	hours
Return Hydraulic Oil Filter Hours	943	hours
Attachment Hydraulic Oil Filter Hours	0	hours
Hydraulic Oil Hours	943	hours
Final Drive Oil Hours	1230	hours
Swing Drive Oil Hours	1828	hours
Travel Motor Hours	1136	hours
Tool #1 Hours	0	hours
Tool #2 Hours	1	hours
Tool #3 Hours	0	hours
Tool #4 Hours	0	hours
Tool #5 Hours	0	hours
Tool #6 Hours	0	hours
Tool #7 Hours	0	hours
Tool #8 Hours	0	hours
Tool #9 Hours	0	hours
Tool #10 Hours	0	hours
Return Hydraulic Oil Filter Bypass Hours	5,6	hours
Return Hydraulic Oil Filter Bypass at Cold Temperature Hours	5,6	hours
Hours of Operation at High Hydraulic Pressure	138,7	hours
Hours of Operation at Relief Hydraulic Pressure	85,5	hours

#### Configuration - Machine Control 320D/323D (KGF00122)

Description	Value	Unit
Product ID	KGF00122	
Hydraulic Power Mode	Disabled or Not Installed	
Fuel Economy Mode Enable Status	Enabled	
Economy Mode	On	
Travel Alarm Installation Status	Not Installed	
Water Separator Level Switch Configuration	Normally Closed (to Ground)	
Fuel Filter Differential Pressure Switch Config	Not Installed	
Secondary Fuel Filter Differential Pressure Switch Config	Not Installed	

Attachment Hydraulic Oil Filter Switch Configuration	Not Installed	
Auto Lube Warning Indicator Enable Switch Configuration	Not Installed	
Machine Overload Pressure Sensor Installation	Installed	
Machine Overload Pressure Threshold	15000	kPa
Heavy Lift System Installation Status	Not Installed	
Engine Fan Type Configuration	Viscous Clutch	
Engine Cooling Fan Map	Standard + Low Noise	
Engine Fan Reversing Feature Installation Status	Disabled or Not Installed	
Engine Fan Reverse Operation Time	Disabled or Not Installed	sec
Machine Application Configuration	NACD Thumb	
Main Pump Flow Limitation Pressure Solenoid Installation Status	Not Installed	
Attachment Valve #1 Configuration	F2 - Two Way	
Attachment Valve #2 Configuration	Not Installed	
Attachment Valve #3 Configuration	Not Installed	
Attachment Valve #4 Configuration	Not Installed	
Attachment Valve #1 Control Type Configuration	Electrical	
Attachment Valve #2 Control Type Configuration	Disabled or Not Installed	
Attachment Valve #3 Control Type Configuration	Disabled or Not Installed	
Attachment Valve #4 Control Type Configuration	Disabled or Not Installed	
Attachment Valve #1 Combiner Configuration	Not Installed	
Auxiliary Circuit Flow Combining Solenoid Installation Status	Disabled or Not Installed	
Hammer Return to Tank Solenoid Installation Status	Disabled or Not Installed	
Variable Relief Valve Type Configuration	Unavailable	
Variable Relief Valve #1 Configuration	Not Installed	
Variable Relief Valve #2 Configuration	Not Installed	
F2 Type Valve Load Sense Pres Sensor Installation	Not Installed	
Joystick Handle Configuration	Basic Handle	
Foot Switch Installation Status	Not Installed	
Left Attachment Pedal Installation Status	Not Installed	
Right Attachment Pedal Installation Status	Not Installed	
Left Joystick Switch #1 Control Mode	Disabled or Not Installed	
Left Joystick Switch #2 Control Mode	Disabled or Not Installed	
Left Joystick Switch #4 Control Mode	Disabled or Not Installed	
Right Joystick Switch #1 Control Mode	Disabled or Not Installed	
Right Joystick Switch #2 Control Mode	Disabled or Not Installed	
Right Joystick Switch #4 Control Mode	Disabled or Not Installed	
Foot Switch Control Mode	Disabled or Not Installed	
Left Joystick Thumbwheel Control Mode	Disabled or Not Installed	

Right Joystick Thumbwheel Control Mode	Disabled or Not Installed	
Left Attachment Pedal Control Mode	Disabled or Not Installed	
Right Attachment Pedal Control Mode	Disabled or Not Installed	
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	1100	rpm
AESC Setting	1300	rpm
AESC Delay Time	5,0	sec
Throttle Dial Position 1 Engine Speed	1000	rpm
Throttle Dial Position 2 Engine Speed	1100	rpm
Throttle Dial Position 3 Engine Speed	1200	rpm
Throttle Dial Position 4 Engine Speed	1300	rpm
Throttle Dial Position 5 Engine Speed	1470	rpm
Throttle Dial Position 6 Engine Speed	1590	rpm
Throttle Dial Position 7 Engine Speed	1700	rpm
Throttle Dial Position 8 Engine Speed	1800	rpm
Throttle Dial Position 9 Engine Speed	1900	rpm
Throttle Dial Position 10 Engine Speed	1980	rpm
Throttle Dial Position 1 Hydraulic System Torque Percentage	20,0	%
Throttle Dial Position 2 Hydraulic System Torque Percentage	40,0	%
Throttle Dial Position 3 Hydraulic System Torque Percentage	60,0	%
Throttle Dial Position 4 Hydraulic System Torque Percentage	70,0	%
Throttle Dial Position 5 Hydraulic System Torque Percentage	80,0	%
Throttle Dial Position 6 Hydraulic System Torque Percentage	86,4	%
Throttle Dial Position 7 Hydraulic System Torque Percentage	92,0	%
Throttle Dial Position 8 Hydraulic System Torque Percentage	92,0	%
Throttle Dial Position 9 Hydraulic System Torque Percentage	92,0	%
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	3000	hours
Fuel/ Water Separator Recommended Maint Interval	0	hours
Fuel Filter Recommended Maintenance Interval	500	hours
Secondary Fuel Filter Recommended Maintenance Interval	0	hours

Tertiary Fuel Filter Recommended Maintenance Interval	0	hours
Fuel Tank Cap 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	0	hours
Final Drive Oil Recommended Maintenance Interval	2000	hours
Hydraulic Oil Recommended Maintenance Interval	2000	hours
Swing Drive Oil Recommended Maintenance Interval	1000	hours
Advanced Machine Security System Installation Status	Not Installed	
Sunday Security System Bypass Start Time	Disabled or Not Installed	
Sunday Security System Bypass Stop Time	Disabled or Not Installed	
Monday Security System Bypass Start Time	Disabled or Not Installed	
Monday Security System Bypass Stop Time	Disabled or Not Installed	
Tuesday Security System Bypass Start Time	Disabled or Not Installed	
Tuesday Security System Bypass Stop Time	Disabled or Not Installed	
Wednesday Security System Bypass Start Time	Disabled or Not Installed	
Wednesday Security System Bypass Stop Time	Disabled or Not Installed	
Thursday Security System Bypass Start Time	Disabled or Not Installed	
Thursday Security System Bypass Stop Time	Disabled or Not Installed	
Friday Security System Bypass Start Time	Disabled or Not Installed	
Friday Security System Bypass Stop Time	Disabled or Not Installed	
Saturday Security System Bypass Start Time	Disabled or Not Installed	
Saturday Security System Bypass Stop Time	Disabled or Not Installed	
AccuGrade System Installation Status	Disabled or Not Installed	
Hydraulic Cab Riser Installation Status	Unavailable	
Hydraulic Cab Riser Raise Snubbing Angle Gain	Unavailable	
Hydraulic Cab Riser Raise Snubbing Rate Gain	Unavailable	
Hydraulic Cab Riser Lower Snubbing Angle Gain	Unavailable	

Hydraulic Cab Riser Lower Snubbing Rate Gain	Unavailable	
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**Calibration Status - Machine Control 320D/323D (KGF00122)**

Calibration	Status	Last Successful Completion
PRV - Variable Relief Pressure Calibration Solenoid 2	Failed	0,0 hours
	Error: 000B Calibration not supported	
PRV - Variable Relief Pressure Calibration Solenoid 1	Failed	0,0 hours
	Error: 000B Calibration not supported	
Stick Cylinder Retract Pilot Pressure Limit Solenoid Cal	Success	Never Successfully Calibrated
Boom Cylinder Extend Pilot Pressure Limit Solenoid Cal	Success	Never Successfully Calibrated
PRV - Power Shift Pressure Calibration	Success	8,6 hours
PRV - Combined Attachment Valve Flow Limit	Success	8,4 hours
PRV - Attachment Valve #1 Flow Limit	Success	9,3 hours
PRV - Flow Meter for Two Pump Flow Combined	Success	9,2 hours
PRV - Pressure Gauge	Success	0,8 hours
Right Attachment Pedal Calibration	Failed	0,0 hours
	Error: 000B Calibration not supported	
Left Attachment Pedal Calibration	Failed	0,0 hours
	Error: 000B Calibration not supported	
Right Joystick Thumbwheel Calibration	Failed	0,0 hours
	Error: 000B Calibration not supported	
Left Joystick Thumbwheel Calibration	Failed	0,0 hours
	Error: 000B Calibration not supported	
Engine Speed Calibration	Success	1203,1 hours
Attachment Valve #4 Retract	Failed	0,0 hours
	Error: 000B Calibration not supported	
Attachment Valve #4 Extend	Failed	0,0 hours
	Error: 000B Calibration not supported	
Attachment Valve #3 Retract	Failed	0,0 hours
	Error: 000B Calibration not supported	
Attachment Valve #3 Extend	Failed	0,0 hours

	Error: 000B Calibration not supported	
Attachment Valve #2 Retract	Failed	0,0 hours
	Error: 000B Calibration not supported	
Attachment Valve #2 Extend	Failed	0,0 hours
	Error: 000B Calibration not supported	
Attachment Valve #1 Retract	Failed	0,0 hours
	Error: 000B Calibration not supported	
Attachment Valve #1 Extend	Failed	0,0 hours
	Error: 000B Calibration not supported	

**Lifetime: Time vs Hydraulic Oil Temperature - Machine Control 320D/323D (KGF00122)**

Hydraulic Oil Temperature( Deg C )	hours	%
<20,0	929,55	8,96
20,0-29,0	1788,80	17,25
30,0-39,0	2228,45	21,49
40,0-49,0	3092,20	29,82
50,0-59,0	1669,00	16,09
60,0-69,0	649,10	6,26
70,0-79,0	13,95	0,13
80,0-89,0	0,00	0,00
90,0-99,0	0,00	0,00
100,0-109,0	0,00	0,00
110,0-119,0	0,00	0,00
>120,0	0,00	0,00

**Lifetime: Time vs Front Hyd Pump Pres - Machine Control 320D/323D (KGF00122)**

Front Hyd Pump Pres( kPa )	hours	%
<20000,0	9893,70	95,40
20000,0-21999,0	198,80	1,92
22000,0-23999,0	102,80	0,99
24000,0-25999,0	58,70	0,57
26000,0-27999,0	35,45	0,34
28000,0-29999,0	23,05	0,22
30000,0-31999,0	15,90	0,15
32000,0-33999,0	11,70	0,11
34000,0-35999,0	27,75	0,27
36000,0-37999,0	0,40	0,00
38000,0-39999,0	0,00	0,00
>40000,0	2,65	0,03

**Lifetime: Time vs Rear Hyd Pump Pres - Machine Control 320D/323D (KGF00122)**

Rear Hyd Pump Pres( kPa )	hours	%
<20000,0	9513,00	91,73
20000,0-21999,0	244,85	2,36

22000,0-23999,0	182,35	1,76
24000,0-25999,0	223,15	2,15
26000,0-27999,0	62,45	0,60
28000,0-29999,0	29,45	0,28
30000,0-31999,0	23,25	0,22
32000,0-33999,0	20,60	0,20
34000,0-35999,0	69,20	0,67
36000,0-37999,0	0,75	0,01
38000,0-39999,0	0,00	0,00
>40000,0	1,90	0,02

### Tool Configuration - Machine Control 320D/323D (KGF00122)

Description	Value	Unit
<b>Tool Program Name</b>	<b>0</b>	<b>Active</b>
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Underspeed Enable	Enabled	
Two Pump Flow Combine Enable	Disabled or Not Installed	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
One Way/ Two Way Valve Mode	Disabled or Not Installed	
Variable Relief Valve #1 Pressure	Disabled or Not Installed	kPa
Variable Relief Valve #2 Pressure	Disabled or Not Installed	kPa
F2 Type Valve Max Flow Derate Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate Start Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate End Pressure	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	Disabled or Not Installed	L/min



Attachment Valve #1 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #1 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	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 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #2 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #2 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Open Time	Disabled or Not Installed	sec
Attachment Valve #2 Close Time	Disabled or Not Installed	sec
Attachment Valve #2 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #3 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #3 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #3 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Open Time	Disabled or Not Installed	sec
Attachment Valve #3 Close Time	Disabled or Not Installed	sec
Attachment Valve #3 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #4 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #4 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #4 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Open Time	Disabled or Not Installed	sec

Attachment Valve #4 Close Time	Disabled or Not Installed	sec
Attachment Valve #4 Tool Flow Direction	Disabled or Not Installed	

Description	Value	Unit
<b>Tool Program Name</b>	0	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Underspeed Enable	Enabled	
Two Pump Flow Combine Enable	Disabled or Not Installed	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
One Way/ Two Way Valve Mode	Disabled or Not Installed	
Variable Relief Valve #1 Pressure	Disabled or Not Installed	kPa
Variable Relief Valve #2 Pressure	Disabled or Not Installed	kPa
F2 Type Valve Max Flow Derate Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate Start Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate End Pressure	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #1 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #1 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	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 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #2 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #2 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Open Time	Disabled or Not Installed	sec
Attachment Valve #2 Close Time	Disabled or Not Installed	sec
Attachment Valve #2 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #3 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #3 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #3 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Open Time	Disabled or Not Installed	sec
Attachment Valve #3 Close Time	Disabled or Not Installed	sec
Attachment Valve #3 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #4 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #4 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #4 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Open Time	Disabled or Not Installed	sec
Attachment Valve #4 Close Time	Disabled or Not Installed	sec
Attachment Valve #4 Tool Flow Direction	Disabled or Not Installed	

Description	Value	Unit
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<b>Tool Program Name</b>	<b>0</b>	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Underspeed Enable	Enabled	
Two Pump Flow Combine Enable	Disabled or Not Installed	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
One Way/ Two Way Valve Mode	Disabled or Not Installed	
Variable Relief Valve #1 Pressure	Disabled or Not Installed	kPa
Variable Relief Valve #2 Pressure	Disabled or Not Installed	kPa
F2 Type Valve Max Flow Derate Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate Start Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate End Pressure	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #1 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #1 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	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 Flow Setting	Disabled or Not Installed	L/min

Attachment Valve #2 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #2 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Open Time	Disabled or Not Installed	sec
Attachment Valve #2 Close Time	Disabled or Not Installed	sec
Attachment Valve #2 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #3 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #3 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #3 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Open Time	Disabled or Not Installed	sec
Attachment Valve #3 Close Time	Disabled or Not Installed	sec
Attachment Valve #3 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #4 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #4 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #4 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Open Time	Disabled or Not Installed	sec
Attachment Valve #4 Close Time	Disabled or Not Installed	sec
Attachment Valve #4 Tool Flow Direction	Disabled or Not Installed	

Description	Value	Unit
<b>Tool Program Name</b>	<b>0</b>	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Underspeed Enable	Enabled	
Two Pump Flow Combine Enable	Disabled or Not Installed	

Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
One Way/ Two Way Valve Mode	Disabled or Not Installed	
Variable Relief Valve #1 Pressure	Disabled or Not Installed	kPa
Variable Relief Valve #2 Pressure	Disabled or Not Installed	kPa
F2 Type Valve Max Flow Derate Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate Start Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate End Pressure	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #1 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #1 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	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 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #2 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #2 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Extend Pressure	Disabled or Not Installed	kPa

Attachment Valve #2 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Open Time	Disabled or Not Installed	sec
Attachment Valve #2 Close Time	Disabled or Not Installed	sec
Attachment Valve #2 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #3 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #3 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #3 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Open Time	Disabled or Not Installed	sec
Attachment Valve #3 Close Time	Disabled or Not Installed	sec
Attachment Valve #3 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #4 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #4 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #4 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Open Time	Disabled or Not Installed	sec
Attachment Valve #4 Close Time	Disabled or Not Installed	sec
Attachment Valve #4 Tool Flow Direction	Disabled or Not Installed	

Description	Value	Unit
<b>Tool Program Name</b>	<b>0</b>	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Underspeed Enable	Enabled	
Two Pump Flow Combine Enable	Disabled or Not Installed	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%

One Way/ Two Way Valve Mode	Disabled or Not Installed	
Variable Relief Valve #1 Pressure	Disabled or Not Installed	kPa
Variable Relief Valve #2 Pressure	Disabled or Not Installed	kPa
F2 Type Valve Max Flow Derate Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate Start Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate End Pressure	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #1 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #1 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	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 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #2 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #2 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Open Time	Disabled or Not Installed	sec
Attachment Valve #2 Close Time	Disabled or Not Installed	sec



Attachment Valve #2 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #3 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #3 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #3 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Open Time	Disabled or Not Installed	sec
Attachment Valve #3 Close Time	Disabled or Not Installed	sec
Attachment Valve #3 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #4 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #4 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #4 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Open Time	Disabled or Not Installed	sec
Attachment Valve #4 Close Time	Disabled or Not Installed	sec
Attachment Valve #4 Tool Flow Direction	Disabled or Not Installed	

Description	Value	Unit
<b>Tool Program Name</b>	<b>0</b>	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Underspeed Enable	Enabled	
Two Pump Flow Combine Enable	Disabled or Not Installed	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
One Way/ Two Way Valve Mode	Disabled or Not Installed	
Variable Relief Valve #1 Pressure	Disabled or Not Installed	kPa
Variable Relief Valve #2 Pressure	Disabled or Not Installed	kPa

F2 Type Valve Max Flow Derate Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate Start Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate End Pressure	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #1 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #1 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	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 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #2 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #2 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Open Time	Disabled or Not Installed	sec
Attachment Valve #2 Close Time	Disabled or Not Installed	sec
Attachment Valve #2 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #3 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #3 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #3 Nominal Pressure	Disabled or Not Installed	kPa

Attachment Valve #3 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Open Time	Disabled or Not Installed	sec
Attachment Valve #3 Close Time	Disabled or Not Installed	sec
Attachment Valve #3 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #4 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #4 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #4 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Open Time	Disabled or Not Installed	sec
Attachment Valve #4 Close Time	Disabled or Not Installed	sec
Attachment Valve #4 Tool Flow Direction	Disabled or Not Installed	

Description	Value	Unit
<b>Tool Program Name</b>	<b>0</b>	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Underspeed Enable	Enabled	
Two Pump Flow Combine Enable	Disabled or Not Installed	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
One Way/ Two Way Valve Mode	Disabled or Not Installed	
Variable Relief Valve #1 Pressure	Disabled or Not Installed	kPa
Variable Relief Valve #2 Pressure	Disabled or Not Installed	kPa
F2 Type Valve Max Flow Derate Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate Start Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate End Pressure	Disabled or Not Installed	kPa

Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #1 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #1 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	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 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #2 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #2 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Open Time	Disabled or Not Installed	sec
Attachment Valve #2 Close Time	Disabled or Not Installed	sec
Attachment Valve #2 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #3 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #3 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #3 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Open Time	Disabled or Not Installed	sec

Attachment Valve #3 Close Time	Disabled or Not Installed	sec
Attachment Valve #3 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #4 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #4 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #4 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Open Time	Disabled or Not Installed	sec
Attachment Valve #4 Close Time	Disabled or Not Installed	sec
Attachment Valve #4 Tool Flow Direction	Disabled or Not Installed	

Description	Value	Unit
<b>Tool Program Name</b>	<b>0</b>	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Underspeed Enable	Enabled	
Two Pump Flow Combine Enable	Disabled or Not Installed	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
One Way/ Two Way Valve Mode	Disabled or Not Installed	
Variable Relief Valve #1 Pressure	Disabled or Not Installed	kPa
Variable Relief Valve #2 Pressure	Disabled or Not Installed	kPa
F2 Type Valve Max Flow Derate Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate Start Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate End Pressure	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa

Multiple Operation Maximum Extend Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #1 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #1 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	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 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #2 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #2 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Open Time	Disabled or Not Installed	sec
Attachment Valve #2 Close Time	Disabled or Not Installed	sec
Attachment Valve #2 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #3 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #3 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #3 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Open Time	Disabled or Not Installed	sec
Attachment Valve #3 Close Time	Disabled or Not Installed	sec
Attachment Valve #3 Tool Flow Direction	Disabled or Not Installed	

Attachment Valve #4 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #4 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #4 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Open Time	Disabled or Not Installed	sec
Attachment Valve #4 Close Time	Disabled or Not Installed	sec
Attachment Valve #4 Tool Flow Direction	Disabled or Not Installed	

Description	Value	Unit
<b>Tool Program Name</b>	0	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Underspeed Enable	Enabled	
Two Pump Flow Combine Enable	Disabled or Not Installed	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
One Way/ Two Way Valve Mode	Disabled or Not Installed	
Variable Relief Valve #1 Pressure	Disabled or Not Installed	kPa
Variable Relief Valve #2 Pressure	Disabled or Not Installed	kPa
F2 Type Valve Max Flow Derate Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate Start Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate End Pressure	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa

Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #1 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #1 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	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 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #2 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #2 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Open Time	Disabled or Not Installed	sec
Attachment Valve #2 Close Time	Disabled or Not Installed	sec
Attachment Valve #2 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #3 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #3 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #3 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Open Time	Disabled or Not Installed	sec
Attachment Valve #3 Close Time	Disabled or Not Installed	sec
Attachment Valve #3 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #4 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #4 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #4 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Extend Pressure	Disabled or Not Installed	kPa



Attachment Valve #4 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Open Time	Disabled or Not Installed	sec
Attachment Valve #4 Close Time	Disabled or Not Installed	sec
Attachment Valve #4 Tool Flow Direction	Disabled or Not Installed	

Description	Value	Unit
<b>Tool Program Name</b>	<b>0</b>	
Maximum Throttle Dial	10	
Minimum Throttle Dial Position	1	
Underspeed Enable	Enabled	
Two Pump Flow Combine Enable	Disabled or Not Installed	
Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction	Disabled or Not Installed	%
One Way/ Two Way Valve Mode	Disabled or Not Installed	
Variable Relief Valve #1 Pressure	Disabled or Not Installed	kPa
Variable Relief Valve #2 Pressure	Disabled or Not Installed	kPa
F2 Type Valve Max Flow Derate Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate Start Pressure	Disabled or Not Installed	kPa
F2 Type Valve Flow Derate End Pressure	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pressure for Attachment Valve #1	Disabled or Not Installed	kPa
Multiple Operation Maximum Extend Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Multiple Operation Maximum Retract Pilot Pres for Combined Attachment Valve	Disabled or Not Installed	kPa
Hydraulic Temperature High Warning Event Threshold	126,0	Deg C
Attachment Valve #1 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #1 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #1 Nominal Pressure	Disabled or Not Installed	kPa

Attachment Valve #1 Maximum Extend Pressure	4000	kPa
Attachment Valve #1 Maximum Retract Pressure	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 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #2 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #2 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #2 Open Time	Disabled or Not Installed	sec
Attachment Valve #2 Close Time	Disabled or Not Installed	sec
Attachment Valve #2 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #3 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #3 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #3 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #3 Open Time	Disabled or Not Installed	sec
Attachment Valve #3 Close Time	Disabled or Not Installed	sec
Attachment Valve #3 Tool Flow Direction	Disabled or Not Installed	
Attachment Valve #4 Flow Setting	Disabled or Not Installed	L/min
Attachment Valve #4 Multi-Operation Additional Flow	Disabled or Not Installed	L/min
Valve #4 Nominal Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Extend Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Maximum Retract Pressure	Disabled or Not Installed	kPa
Attachment Valve #4 Open Time	Disabled or Not Installed	sec
Attachment Valve #4 Close Time	Disabled or Not Installed	sec

Attachment Valve #4 Tool Flow Direction	Disabled or Not Installed	
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#### C6.4 320D (GDC00778)

Parameter	Value
Equipment ID	KGF00122
Engine Serial Number	GDC00778
ECM Part Number	2863683-00
ECM Serial Number	22366334MB
Software Group Part Number	3282694-00
Software Group Release Date	2008
Software Group Description	MHI 320D A4E2i2
Active Event Codes Present	Unavailable

#### Logged Diagnostic Codes [Diagnostic Clock = 10347 hours] - C6.4 320D (GDC00778)

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

#### Logged Event Codes [Diagnostic Clock = 10347 hours] - C6.4 320D (GDC00778)

Code	Description	Occ.	First	Last
E360 (3)	Low Engine Oil Pressure	9	777	9079
E361 (2)	High Engine Coolant Temperature	4	4598	7026

#### Active Diagnostic Codes - C6.4 320D (GDC00778)

Code	Description
No Active Diagnostic Codes	

#### Active Event Codes - C6.4 320D (GDC00778)

Code	Description
No Active Event Codes	

#### Current Totals - C6.4 320D (GDC00778)

Description	Value	Unit
Total Operating Hours	10348	hours
Total Fuel	123689	L
Total Idle Time	1918:12	hours
Total Idle Fuel	6714	L
Percentage Idle Time	18,54	%
Average Fuel Rate	11,95	L/h

#### Configuration - C6.4 320D (GDC00778)

Description	Value	Unit
Equipment ID	KGF00122	
Engine Serial Number	GDC00778	
ECM Part Number	2863683-00	

ECM Serial Number	22366334MB	
Software Group Part Number	3282694-00	
Software Group Release Date	2008	
Software Group Description	MHI 320D A4E2i2	
Rated Power	110 kW at 1800 rpm	
Rated Peak Torque	654 N-m at 1400 rpm	
Top Engine Speed Range	1980 - 1980 rpm	
Test Spec		
FLS	0	
FTS	0	
Security System Immobilizer Installation Status	Disabled or Not Installed	
Total Tattletale	707	
Idle Speed	800	rpm

**Event Triggered:Time vs Engine Coolant Temperature - C6.4 320D (GDC00778)**

Engine Coolant Temperature( Deg C )	hours	%
<50,0	180,40	1,81
50,0-54,9	48,90	0,49
55,0-59,9	63,55	0,64
60,0-64,9	75,80	0,76
65,0-69,9	200,90	2,02
70,0-74,9	848,20	8,53
75,0-79,9	2133,30	21,46
80,0-84,9	6242,25	62,79
85,0-89,9	114,70	1,15
90,0-94,9	19,95	0,20
95,0-99,9	9,35	0,09
100,0-104,9	3,25	0,03
105,0-109,9	0,55	0,01
110,0-114,9	0,00	0,00
115,0-120,0	0,00	0,00
>120,0	0,00	0,00

**Event Triggered:Time vs Inlet Air Temperature - C6.4 320D (GDC00778)**

Inlet Air Temperature( Deg C )	hours	%
<40,0	7751,40	87,87
40,0-44,9	820,80	9,31
45,0-49,9	195,35	2,21
50,0-54,9	42,45	0,48
55,0-59,9	6,90	0,08
60,0-64,9	2,90	0,03
65,0-69,9	1,05	0,01
70,0-74,9	0,20	0,00
75,0-79,9	0,00	0,00
80,0-84,9	0,00	0,00
85,0-89,9	0,00	0,00

90,0-94,9	0,00	0,00
95,0-100,0	0,00	0,00
>100,0	0,00	0,00

**Event Triggered:Time vs Intake Manifold Pressure - C6.4 320D (GDC00778)**

Intake Manifold Pressure( kPa )	hours	%
<80,0	7114,50	80,65
80,0-89,9	1246,60	14,13
90,0-99,9	410,90	4,66
100,0-109,9	47,70	0,54
110,0-119,9	1,05	0,01
120,0-129,9	0,35	0,00
130,0-139,9	0,00	0,00
140,0-149,9	0,00	0,00
150,0-159,9	0,00	0,00
160,0-169,9	0,00	0,00
170,0-179,9	0,00	0,00
180,0-189,9	0,00	0,00
190,0-200,0	0,00	0,00
>200,0	0,00	0,00

**Event Triggered:Time vs Engine Speed And Engine Load Factor - C6.4 320D (GDC00778)**

rpm	<1000	1000-1199	1200-1399	1400-1599	1600-1799	1800-1999	2000-2199	2200-2400	>2400
%									
<50	143,30	1879,80	794,35	3367,45	501,60	6,15	0,00	0,00	0,00
50-59	0,20	2,55	179,40	1139,45	77,15	1,15	0,00	0,00	0,00
60-69	0,10	1,15	106,00	908,05	55,70	0,85	0,00	0,00	0,00
70-79	0,05	0,40	59,00	341,60	38,20	0,70	0,00	0,00	0,00
80-90	0,00	0,05	14,05	54,60	13,70	0,45	0,00	0,00	0,00
>90	0,25	0,05	1,70	8,70	2,85	1,55	0,00	0,00	0,00
Total	143,90	1884,00	1154,50	5819,85	689,20	10,85	0,00	0,00	0,00

**Event Triggered:Time vs Engine Speed And Engine Load Factor - C6.4 320D (GDC00778)**

rpm	Total
%	
<50	6692,65
50-59	1399,90
60-69	1071,85
70-79	439,95
80-90	82,85
>90	15,10
Total	9702,30

**Event Triggered:Total Occurrences vs Engine Speed - C6.4 320D (GDC00778)**

Engine Speed( rpm )		%
<2600,0	0,00	0,00
2600,0-2699,9	0,00	0,00

2700,0-2799,9	0,00	0,00
2800,0-2899,9	0,00	0,00
2900,0-2999,9	0,00	0,00
3000,0-3099,9	0,00	0,00
3100,0-3199,9	0,00	0,00
3200,0-3299,9	0,00	0,00
3300,0-3400,0	0,00	0,00
>3400,0	0,00	0,00

#### Injector Trim Calibration - C6.4 320D (GDC00778)

Injector	Serial Number	File Version
Injector1	000000002S0075887133	1
Injector2	000000002S007588622F	1
Injector3	000000002S0075893510	1
Injector4	000000002S0075893934	1
Injector5	000000002S00758453ED	1
Injector6	000000002S0083897791	1

#### Monitor

Parameter	Value
ECM Serial Number	073J0579AJ
Personality Module Part Number	2909514-00