Cat Electronic Technician 2016C v1.0 Product Status Report

3/6/2017 10:16 AM

Product Status Report

| Parameter | Value |
|--------------|----------|
| Product ID | PAC01146 |
| Equipment ID | |
| Comments | |

Monitor

| Parameter Parameter | Value |
|--------------------------------|------------|
| ECM Serial Number | 067E0525EE |
| Personality Module Part Number | 2602161-00 |

Hyd Pump Control 320C (0)

| Parameter | Value |
|---------------------------------|------------------|
| Product ID | PAC01146 |
| ECM Part Number | 1573165-05 |
| ECM Serial Number | 00206861EG |
| Software Group Part Number | 2475303-00 |
| Software Group Release Date | SEP2004 |
| Software Group Description | 320C HEX CONTROL |
| Active Diagnostic Codes Present | No |

Logged Diagnostic Codes [Diagnostic Clock = Unavailable hours] - Hyd Pump Control 320C (0)

| Code | Description | Occ. | First | Last |
|---------|---|------|-------|------|
| 110-10 | Engine Coolant Temperature Sensor : Abnormal Rate of Change | 1 | 0 | 0 |
| 1161- 3 | Front Hydraulic Pump Pressure Sensor : Voltage Above Normal | 1 | 0 | 0 |

Logged Event Codes [Diagnostic Clock = Unavailable hours] - Hyd Pump Control 320C (0)

| Code | Description | Occ. | First | Last |
|------|--|------|-------|------|
| E100 | Low Engine Oil Pressure Warning | 1 | 0 | 0 |
| E179 | Alternator Not Charging | 1 | 0 | 0 |
| E600 | High Hydraulic Oil Temperature Warning | 1 | 0 | 0 |

Active Diagnostic Codes - Hyd Pump Control 320C (0)

| Code | Description |
|----------------------------------|-------------|
| No Active Diagnostic Codes | |

Current Totals - Hyd Pump Control 320C (0)

| Description | Value | Unit |
|---------------------------------------|-------|-------|
| Engine Maintenance Hours | 5570 | hours |
| Engine Oil Hours | 5570 | hours |
| Engine Oil Filter Hours | 5570 | hours |
| Engine Coolant Hours | 5570 | hours |
| Fuel/ Water Separator Hours | 0 | hours |
| Fuel Filter Hours | 5570 | hours |
| Hydraulic Pump Hours | 5570 | hours |
| Hydraulic Pilot Oil Filter Hours | 5570 | hours |
| Hydraulic Case Drain Oil Filter Hours | 5570 | hours |
| Return Hydraulic Oil Filter Hours | 5570 | hours |
| Hydraulic Oil Hours | 5570 | hours |
| Final Drive Oil Hours | 5570 | hours |
| Swing Drive Oil Hours | 5570 | hours |
| Travel Motor Hours | 808 | hours |
| Tool #1 Hours | 210 | hours |
| Tool #2 Hours | 0 | hours |
| Tool #3 Hours | 0 | hours |
| Tool #4 Hours | 0 | hours |
| Tool #5 Hours | 0 | hours |

Configuration - Hyd Pump Control 320C (0)

| Description | Value | Unit |
|---|---------------------------------|------|
| Product ID | PAC01146 | |
| Hydraulic Oil Type | Mineral Oil | |
| Travel Alarm Installation Status | Installed | |
| Water Separator Level Switch Configuration | Normally Open | |
| Fuel Filter Differential Pressure Switch Config | Not Installed | |
| Secondary Fuel Filter Differential Pressure Switch Config | Not Installed | |
| High Pressure Hydraulic Oil Filter Switch Config | Not Installed | |
| Auto Lube System Installation Status | Not Installed | |
| Machine Overload Pressure Sensor Installation | Not Installed | |
| Machine Application Configuration | Bucket | |
| Attachment Tool ECM Installation Status | Not Installed | |
| Main Pump Flow Limitation Pressure Solenoid Installation Status | Not Installed | |
| Attachment Valve #1 Configuration | F2 - One Way or Two Way | |
| Attachment Valve #2 Configuration | F2 - One Way or Two Way | |
| Attachment Valve #3 Configuration | F4 - One Way or Two Way | |
| Attachment Valve #4 Configuration | F3 - One Way or Two Way | |
| Attachment Valve #1 Combiner Configuration | Valve #2 Combined with Valve #1 | |

| Travel Speed Shift Low Delay 0.4 sec Travel Speed Shift Low Pres 2418 psi Travel Speed Shift Ligh Pressure 4622 psi One Touch Engine Speed Setting 1000 rpm AESC Setting 1300 rpm AESC Setting 1300 rpm AESC Delay Time 3.0 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 5 Engine Speed 1300 rpm Throttle Dial Position 6 Engine Speed 1470 rpm Throttle Dial Position 5 Engine Speed 1590 rpm Throttle Dial Position 6 Engine Speed 1700 rpm Throttle Dial Position 8 Engine Speed 1800 rpm Throttle Dial Position 1 Speed 1990 rpm Throttle Dial Position 1 Hydraulic System 1000 rpm Throttle Dial Position 1 Hydraulic System 20.0 % Torque Percentage | T 1.0 1.01.76.1 | 0.4 | |
|--|---|-------|-------|
| Travel Speed Shift Low Pres Travel Speed Shift Low Pres Travel Speed Shift High Pressure 4622 psi One Touch Engine Speed Setting 1000 AESC Setting 1300 AESC Setting 1300 AESC Delay Time 3.0 Sec Throttle Dial Position 1 Engine Speed 1100 Throttle Dial Position 2 Engine Speed 1100 Throttle Dial Position 3 Engine Speed 1100 Throttle Dial Position 3 Engine Speed 1200 Throttle Dial Position 5 Engine Speed 1300 Throttle Dial Position 6 Engine Speed 1470 Throttle Dial Position 6 Engine Speed 1470 Throttle Dial Position 6 Engine Speed 1470 Throttle Dial Position 8 Engine Speed 1470 Throttle Dial Position 8 Engine Speed 1480 Throttle Dial Position 9 Engine Speed 1800 Throttle Dial Position 9 Engine Speed 1900 Throttle Dial Position 10 Engine Speed 1998 Throttle Dial Position 1 Hydraulic System Torque Percentage Throttle Dial Position 3 Hydraulic System Torque Percentage Throttle Dial Position 4 Hydraulic System Torque Percentage Throttle Dial Position 5 Hydraulic System Torque Percentage Throttle Dial Position 6 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 6 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 6 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position | | | |
| Travel Speed Shift High Pressure | | | |
| One Touch Engine Speed Setting 1000 rpm AESC Setting 1300 rpm AESC Delay Time 3.0 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 1590 rpm Throttle Dial Position 8 Engine Speed 1590 rpm Throttle Dial Position 9 Engine Speed 1800 rpm Throttle Dial Position 10 Engine Speed 1900 rpm Throttle Dial Position 1 Hydraulic System 20.0 % Torque Percentage 40.0 % Throttle Dial Position 3 Hydraulic System 60.0 % Torque Percentage 81.2 % Throttle Dial Position 4 Hydraulic System 86.4 % Torque Pe | | | |
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| Throttle Dial Position 9 Engine Speed 1900 rpm Throttle Dial Position 10 Engine Speed 1998 rpm Throttle Dial Position 1 Hydraulic System 20.0 % Throttle Dial Position 2 Hydraulic System Torque Percentage Throttle Dial Position 3 Hydraulic System Torque Percentage Throttle Dial Position 3 Hydraulic System Torque Percentage Throttle Dial Position 4 Hydraulic System Torque Percentage Throttle Dial Position 5 Hydraulic System Torque Percentage Throttle Dial Position 5 Hydraulic System Torque Percentage Throttle Dial Position 6 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position | Throttle Dial Position 7 Engine Speed | | rpm |
| Throttle Dial Position 10 Engine Speed 20.0 % Throttle Dial Position 1 Hydraulic System 20.0 % Torque Percentage Throttle Dial Position 2 Hydraulic System 70rque Percentage Throttle Dial Position 3 Hydraulic System 70rque Percentage Throttle Dial Position 3 Hydraulic System 70rque Percentage Throttle Dial Position 4 Hydraulic System 70rque Percentage Throttle Dial Position 5 Hydraulic System 70rque Percentage Throttle Dial Position 6 Hydraulic System 70rque Percentage Throttle Dial Position 7 Hydraulic System 70rque Percentage Throttle Dial Position 7 Hydraulic System 70rque Percentage Throttle Dial Position 7 Hydraulic System 70rque Percentage Throttle Dial Position 8 Hydraulic System 70rque Percentage Throttle Dial Position 9 Hydraulic System 70rque Percentage Throttle Dial Position 10 Hydraulic Pilot Oil Filter Recommended 70 hours Throttle Dial Position 10 Hydraulic Pilot Oil Filter Pecommended 70 hours | Throttle Dial Position 8 Engine Speed | 1800 | rpm |
| Throttle Dial Position 1 Hydraulic System Torque Percentage Throttle Dial Position 2 Hydraulic System Torque Percentage Throttle Dial Position 3 Hydraulic System Torque Percentage Throttle Dial Position 3 Hydraulic System Torque Percentage Throttle Dial Position 4 Hydraulic System Torque Percentage Throttle Dial Position 5 Hydraulic System Torque Percentage Throttle Dial Position 6 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Engine Oil Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Fuel Water Separator Recommended Maintenance Interval Fuel Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Case Drain Oil Filter 1000 ** 40.0 ** 40.0 ** ** ** ** ** ** ** ** ** | Throttle Dial Position 9 Engine Speed | 1900 | rpm |
| Torque Percentage Throttle Dial Position 2 Hydraulic System Torque Percentage Throttle Dial Position 3 Hydraulic System Torque Percentage Throttle Dial Position 4 Hydraulic System Torque Percentage Throttle Dial Position 5 Hydraulic System Torque Percentage Throttle Dial Position 5 Hydraulic System Torque Percentage Throttle Dial Position 6 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hy | Throttle Dial Position 10 Engine Speed | 1998 | rpm |
| Torque Percentage Throttle Dial Position 3 Hydraulic System Torque Percentage Throttle Dial Position 4 Hydraulic System Torque Percentage Throttle Dial Position 5 Hydraulic System Torque Percentage Throttle Dial Position 6 Hydraulic System Torque Percentage Throttle Dial Position 6 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Engine Oil Recommended Maintenance Interval Engine Oil Filter Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Fuel Water Separator Recommended Maint Interval Fuel Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Case Drain Oil Filter 1000 % **O** | | 20.0 | % |
| Torque Percentage Throttle Dial Position 4 Hydraulic System Torque Percentage Throttle Dial Position 5 Hydraulic System Torque Percentage Throttle Dial Position 6 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic Sys | | 40.0 | % |
| Torque Percentage Throttle Dial Position 5 Hydraulic System Torque Percentage Throttle Dial Position 6 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Engine Oil Recommended Maintenance Interval Engine Oil Filter Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Fuel/ Water Separator Recommended Maint Interval Fuel Filter Recommended Maintenance Interval Fuel Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Case Drain Oil Filter 1000 Mours | | 60.0 | % |
| Throttle Dial Position 5 Hydraulic System Torque Percentage Throttle Dial Position 6 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Engine Oil Recommended Maintenance Interval Engine Oil Filter Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Fuel/ Water Separator Recommended Maint Interval Fuel Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Case Drain Oil Filter 1000 Mours | | 81.2 | % |
| Throttle Dial Position 6 Hydraulic System Torque Percentage Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Engine Oil Recommended Maintenance Interval Engine Oil Filter Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Fuel Water Separator Recommended Maint Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Case Drain Oil Filter 1000 **Set. 4 **M** **O** | Throttle Dial Position 5 Hydraulic System | 86.4 | % |
| Throttle Dial Position 7 Hydraulic System Torque Percentage Throttle Dial Position 8 Hydraulic System Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Engine Oil Recommended Maintenance Interval Engine Oil Filter Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Fuel/ Water Separator Recommended Maint Interval Fuel Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Case Drain Oil Filter 1000 **Set. 4 **O **O **O **O **O **O **O * | Throttle Dial Position 6 Hydraulic System | 86.4 | % |
| Torque Percentage Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Engine Oil Recommended Maintenance Interval Engine Oil Filter Recommended Maintenance Interval Engine Coolant Recommended Engine Coolant Recommended Maintenance Interval Fuel/ Water Separator Recommended Maint Interval Fuel Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended Hydraulic Case Drain Oil Filter 1000 86.4 % 86.4 % Mours hours | | 86.4 | % |
| Throttle Dial Position 9 Hydraulic System Torque Percentage Throttle Dial Position 10 Hydraulic System Torque Percentage Engine Oil Recommended Maintenance Interval Engine Oil Filter Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Fuel/ Water Separator Recommended Maintenance Interval Fuel Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Case Drain Oil Filter 1000 Me Maintenance Maintenance Maintenance Maintenance Interval Hydraulic Case Drain Oil Filter 1000 Me Maintenance Maintenance Maintenance Maintenance Maintenance Interval Hydraulic Case Drain Oil Filter | Throttle Dial Position 8 Hydraulic System | 86.4 | % |
| Torque Percentage Engine Oil Recommended Maintenance Interval Engine Oil Filter Recommended 500 hours Maintenance Interval Engine Coolant Recommended 3000 hours Maintenance Interval Fuel/ Water Separator Recommended Maintenance Maint Interval Fuel Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended 1000 hours Maintenance Interval Hydraulic Case Drain Oil Filter 1000 hours | Throttle Dial Position 9 Hydraulic System | 86.4 | % |
| Interval Engine Oil Filter Recommended Maintenance Interval Engine Coolant Recommended Maintenance Interval Fuel/ Water Separator Recommended Maint Interval Fuel Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Case Drain Oil Filter 1000 hours hours hours | | 105.0 | % |
| Maintenance Interval Engine Coolant Recommended 3000 hours Maintenance Interval Fuel/ Water Separator Recommended Maint Interval Fuel Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Case Drain Oil Filter 1000 hours | | 500 | hours |
| Maintenance Interval Fuel/ Water Separator Recommended Maint Interval Fuel Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Case Drain Oil Filter 1000 hours hours hours | | 500 | hours |
| Maint Interval Fuel Filter Recommended Maintenance Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Case Drain Oil Filter Interval | | 3000 | hours |
| Interval Hydraulic Pilot Oil Filter Recommended Maintenance Interval Hydraulic Case Drain Oil Filter 1000 hours hours | | 0 | hours |
| Maintenance Interval Hydraulic Case Drain Oil Filter 1000 hours | | 500 | hours |
| Hydraulic Case Drain Oil Filter 1000 hours Recommended MI | | 1000 | hours |
| | Hydraulic Case Drain Oil Filter Recommended MI | 1000 | hours |

| Return Hyd Oil Filter Recommended Maint Interval | 1000 | hours |
|--|------|-------|
| Final Drive Oil Recommended Maintenance Interval | 2000 | hours |
| Hydraulic Oil Recommended Maintenance Interval | 2000 | hours |
| Swing Drive Oil Recommended Maintenance Interval | 1000 | hours |

Tool Configuration - Hyd Pump Control 320C (0)

| Description | Value | Unit |
|---|----------|---------|
| Tool Program Name | 0 | Active |
| Maximum Throttle Dial | 10 | |
| Throttle Dial Flow Control | On | |
| Underspeed Enable | Enabled | |
| Two Pump Flow Combine Enable | Disabled | |
| Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction | 5 | % |
| Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction | 30 | % |
| Attachment Valve #1 Flow Setting | 42 | gal/min |
| Attachment Valve #1 Multi- Operation Additional Flow | 0 | gal/min |
| Valve #1 Nominal Pressure | 2321 | psi |
| Attachment Valve #3 Flow Setting | 11 | gal/min |
| Attachment Valve #3 Multi- Operation Additional Flow | 0 | gal/min |
| Valve #3 Nominal Pressure | 2321 | psi |

Tool Configuration - Hyd Pump Control 320C (0)

| Description | Value | Unit |
|---|---------|---------|
| Tool Program Name | 0 | |
| Maximum Throttle Dial | 10 | |
| Throttle Dial Flow Control | On | |
| Underspeed Enable | Enabled | |
| Two Pump Flow Combine Enable | Enabled | |
| Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction | 5 | % |
| Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction | 30 | % |
| Attachment Valve #1 Flow Setting | 42 | gal/min |
| Attachment Valve #1 Multi- Operation Additional Flow | 0 | gal/min |
| Valve #1 Nominal Pressure | 2321 | psi |

| Attachment Valve #3 Flow Setting | 11 | gal/min |
|---|------|---------|
| Attachment Valve #3 Multi- Operation Additional Flow | 0 | gal/min |
| Valve #3 Nominal Pressure | 2321 | psi |

Tool Configuration - Hyd Pump Control 320C (0)

| Description | Value | Unit |
|---|---------|---------|
| Tool Program Name | 0 | |
| Maximum Throttle Dial | 10 | |
| Throttle Dial Flow Control | On | |
| Underspeed Enable | Enabled | |
| Two Pump Flow Combine Enable | Enabled | |
| Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction | 5 | % |
| Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction | 30 | % |
| Attachment Valve #1 Flow Setting | 42 | gal/min |
| Attachment Valve #1 Multi- Operation Additional Flow | 0 | gal/min |
| Valve #1 Nominal Pressure | 2321 | psi |
| Attachment Valve #3 Flow Setting | 11 | gal/min |
| Attachment Valve #3 Multi- Operation Additional Flow | 0 | gal/min |
| Valve #3 Nominal Pressure | 2321 | psi |

Tool Configuration - Hyd Pump Control 320C (0)

| Description | Value | Unit |
|---|---------|---------|
| Tool Program Name | 0 | |
| Maximum Throttle Dial | 10 | |
| Throttle Dial Flow Control | On | |
| Underspeed Enable | Enabled | |
| Two Pump Flow Combine Enable | Enabled | |
| Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction | 5 | % |
| Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction | 30 | % |
| Attachment Valve #1 Flow Setting | 42 | gal/min |
| Attachment Valve #1 Multi- Operation Additional Flow | 0 | gal/min |
| Valve #1 Nominal Pressure | 2321 | psi |
| Attachment Valve #3 Flow Setting | 11 | gal/min |

| Attachment Valve #3 Multi- Operation Additional Flow | 0 | gal/min |
|---|------|---------|
| Valve #3 Nominal Pressure | 2321 | psi |

Tool Configuration - Hyd Pump Control 320C (0)

| Description | Value | Unit |
|---|---------|---------|
| Tool Program Name | 0 | |
| Maximum Throttle Dial | 10 | |
| Throttle Dial Flow Control | On | |
| Underspeed Enable | Enabled | |
| Two Pump Flow Combine Enable | Enabled | |
| Initial Tool Program Medium Pressure Circuit Main Pump Torque Reduction | 5 | % |
| Total Tool Program Medium Pressure Circuit Main Pump Torque Reduction | 30 | % |
| Attachment Valve #1 Flow Setting | 42 | gal/min |
| Attachment Valve #1 Multi- Operation Additional Flow | 0 | gal/min |
| Valve #1 Nominal Pressure | 2321 | psi |
| Attachment Valve #3 Flow Setting | 11 | gal/min |
| Attachment Valve #3 Multi- Operation Additional Flow | 0 | gal/min |
| Valve #3 Nominal Pressure | 2321 | psi |

DA0550

1/27/11 Invoice Number: SW500128265 Date: Account No.: 0056260 Page: 1

Sold To

VERNON PIERSON

Ship To

Invoice Information

WO Number: WO Date:

WA09637 1/19/11

Store:

DES MOINES CHARGE

Payment Terms: P/O Number: Ship Via: Invoice Type:

101010

Make: Model:

CATERPILLAR 320

Serial:

100

PIN:

0PAC01146

ld No: Cust Unit:

Meter:

.0

Invoice Summary

Parts: Labor: 4,100.09 812.00 126.14-

Misc: Taxes:

287.16

Amount Due:

\$5,073.11

Invoice Total:

5,073.11

Invoice Number: SW500128265 Date: 1/27/11 Account No.: Page: 2 N/R Quantity Description Unit Price Extended HONE RESEAL STICK CYLINDER HONE AND RESEAL STICK CYLINDER. ROD WAS SCRATCHED AND NICKED.
THE SCORING MARKS CAUSED THE ROD SEALS TO LEAK
OIL. THE DAMAGE WAS TO GREAT TO REPAIR.
DISASSEMBLED CYLINDER. QUOTED NEW ROD. NO REMANS
WERE AVAILABLE. HONED AND WASHED THE BARREL. HEAD BEARING WAS SCORED FROM CONTACT TO THE ROD. BEARING WAS SCORED FROM CONTACT TO THE ROD.
REMOVED AND INSTALLED NEW HEAD BEARING. BEAD
BLASTED THE HEAD. CLEANED AND RESEALED THE HEAD
AND PISTON. ASSEMBLED ROD PACK AND TORQUED THE
PISTON NUT TO 8800 FOOT POUNDS. INSTALLED SET
SCREW AND TORQUED TO 42 FOOT POUNDS AND STACKED
THE NUT. INSTALLED THE BARREL SNUBBER ONTO THE
ROD. PUSHED BARREL ONTO ROD PACK AND TORQUED THE
HEAD BOLTS TO 271 FOOT POUNDS. CYLINDER PRESSURE
TESTED GOOD. PLUGGED PORTS AND STAMPED CYLINDER
WITH WORK ORDER NUMBER. SHIPPED CYLINDER BACK TO ATLANTIC STORE WITH CUSTOMERS BAD ROD. 096-5625 S5 65.60 65.60 S5 315.19 315.19 BUSHING 1 259-0633 SEAL KIT TOTAL PARTS SEG. 60 380.79 * TOTAL LABOR SEG. 60 812.00 * SEGMENT 60 TOTAL 1192.79 T EXTRA PARTS/LABOR/MIS FOR STICK CYLINDER
2 177-2573 SEAL-LIP S
1 177-2598 CYLINDER AS N
1- 177-2598 CYLINDER AS N 2 177-2573 1 177-2598 1- 177-2598 S5 N5 N5 N5 16.85 33.70 3344.44 3344.44 3344.44 3344.44-3685.60 3685.60 3344.44-177-2599 ROD AS TOTAL PARTS SEG. 61 3719.30 * SEGMENT 61 TOTAL PROMOTION 1.00-15 HYD. REPAIR 178.92-TOTAL MISC CHGS SEG. 64 178.92-* SEGMENT 64 TOTAL 178.92-T SERVICE SUPPLIES AND ENVIRONMENTAL CHARGES 52.78 T 239.30 T IA SALES TAX-5 IA SILO POLK 47.86 T DUE BY 10TH OF THE NEXT MONTH INVOICE TOTAL 5,073.11

| Invoice Numb | | IHVGIC | e Date: 04-10-1 | 3 | Account Number: | Page: |
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| CUST OIL CAUS BROK RESU NONE | C SIDE COMER CONCE LEAK SE OF FAILU CEN DUO CON JLTANT DAMA | RN RE E SEAL GE | | | | |
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| CUST OIL CAUS BROK RESU NONE REPA DISA GEAR | C SIDE COMER CONCE LEAK SE OF FAILU CEN DUO CON JLTANT DAMA LIR COMMENT ASSEMBLE & RS ARE REUS | RN RE E SEAL GE FOUND DUO CONE ABLE. REASSEMBI SEA 00000 | SEAL BROKEN LE WITH NEW : | SEALS. | 7.16 | |
| CUST OIL CAUS BROK RESU NONE REPA DISA GEAR | C SIDE COMER CONCE LEAK SE OF FAILU CEN DUO CON JLTANT DAMA AIR COMMENT ASSEMBLE & 1 CS ARE REUS 6D-0692 | RN RE E SEAL GE S FOUND DUO CONE ABLE. REASSEMBI 00000 SEA | SEAL BROKEN LE WITH NEW : | SEALS. S | ". 1.57 | 3.1 |
| CUST OIL CAUS BROK RESU NONE REPA DISA GEAR 1 | C SIDE COMER CONCE LEAK SE OF FAILU CEN DUO CON ULTANT DAMAG AIR COMMENT ASSEMBLE & CS ARE REUS 6D-0692 7M-8485 | RN RE E SEAL GE S FOUND DUO CONE ABLE. REASSEMBI 00000 SEA 00000 O-1 | SEAL BROKEN LE WITH NEW : AL O RING AL | SEALS. S S | ". 1.57 1.01 | 3.1 |
| CUST OIL CAUS BROK RESU NONE REPA DISA GEAR 1 | C SIDE COMER CONCE LEAK SE OF FAILU CEN DUO CON JLTANT DAMA AIR COMMENT ASSEMBLE & 1 CS ARE REUS 6D-0692 7M-8485 | RN RE E SEAL GE S FOUND DUO CONE ABLE. REASSEMBI 00000 SEA 00000 O-1 | SEAL BROKEN LE WITH NEW : AL O RING | SEALS. S | ". 1.57 | 3.1 |
| CUST OIL CAUS BROK RESU NONE REPA DISA GEAR 1 | C SIDE COMER CONCE LEAK SE OF FAILU CEN DUO CON ULTANT DAMAG AIR COMMENT ASSEMBLE & CS ARE REUS 6D-0692 7M-8485 | RN RE E SEAL GE FOUND DUO CONE ABLE. REASSEMBI 00000 SEA 00000 O-I 00000 O-I | SEAL BROKEN LE WITH NEW : AL O RING AL | SEALS. S S | ". 1.57 1.01 | 3.1 1.0 6.2 |
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Please Pay This Amount: CONT'D

Amount Credited:

SOLD TO

VERNON PIERSON

Invoice Date: 94-10-13 Account Number: Page: 2

SHIP TO

ID No: Make: AA Document Number: 0073960 P/O Number: Model: 320C Document Date: Ship Via: 04-09-13 Meter: Serial: OPAE01146 Cust Unit: Branch: Omaha Extension Unit Price Description W/R Quantity PROFORMA INVOICE

* * PROFORMA INVOICE * * *

1 1GBL8 2IN WIRE WHEEL S 23.82 23.82

00000 TOTAL PARTS SEG. 01 250.91 *

TOTAL LABOR SEG. 01 654.00 *

SEGMENT 01 TOTAL 904.91 T

NE SALES TAX 49.77 T

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Please Pay This Amount: 954.68

Amount Credited: