See To ROCHESTER ASPHALT INC 2904 COUNTY ROAD 15 SW BYRON MN 55920-6319 5/31/17 Date: Account No.: 0217360 Ship To: Invoice Information CATERPILLAR 980GII 0AWH01803 Make: WO Number: WR76877 WO Date: 5/08/17 Model: Serial: Payment Terms: CHARGE
PIO Number:
Ship Via: PIN: Id No: Cust Unit: 17113.0 Meter: Ship Via: Invoice Type: 101010 Invoice Summary Parts: Labor: Amount Due: \$3,488.30 Wisc. Taxes 3,488.30 Invoice Total: \$3,488.30 Amount Due: Amount Enclosed:

Quantity	Item N/R	Description		Unit Price	Extend
			The state of the second	I proper from the second of the second	40 000 + 000 1 post
REPAIR HYDRAULI CUSTOMER COMPI	LATMT.				
-JOBSITE- SALI	EM CORNERS MN				
DUCKET FLUAT	SAID BOOM DOWN FUN	CTION WAS SI	LOW AND		
REPAIR PROCESS	S COMMENTS.				
TOR THE DEVER	352-3 AND 353-3 H POSITION SENSORS.	T DEDI ACEI	שיויטם		
I CHECKED PILO	ALIBRATED. NO BUCK	ET FLOAT YET	NEXT		
PSI. IMAI IS S	SPEC. I THEN HODAT	ED THE TMDIE	TMTMT		
FLOAT. I THEN	FROM 2466582 TO 2 INSTALLED THE BOO	M DOWN SOLEN	IOTD		
VALVE. WENT TH	HREW ALL THE HYDRA EN AND THE BOOM DO	III.TC CALTBRA	TIONS.		
RIGHT. BUT THE	E LIFT POSITION SE	NSOR WAS FAU	ILTING.		
AT THEN REPLACE	ED THE LIFT LINKAG THE HYDRAULICS WO	E POSITION S RKED RIGHT N	SENSOR.		
FAULTS. 1 6I-2505			35	418	
4 8T-4988	ELEMENT CLAMP	5	35		
4 8T-4988 1 174-4913 2 266-1477	VALVE G SENSOR	P-SOL N	15 35		
1 266-2337	SENSOR	GP-PO N	15	-	
	TOTA	L PARTS	SEG.	01	Take -
	TOTA	L LABOR	SEG.	01	
	SEG	MENT 01 TOTA	AL		
REPLACE TORQ CO	NV/TRANS TEMP IND				
CUSTOMER COMPL	VERTER TEMP GAUGE	WAS PEGGINO	3		
INTERMITTENT					
REPAIR PROCESS REPLACED THE T	ORQUE CONVERTER T	EMP SENDER.			
1 3J-1907 1 118-7226	SEAL SENSOR (2	35 35		
1 118-7226	The second second second second second			0.2	
		L PARTS	SEG.		
		LABOR	SEG.	02	
	SEGI	MENT 02 TOTA	AL		
	AN CUITNE				
TRAVEL TO/FROM I	MACHINE				
60.00		LABOR	SEG.	99	
60.00	TRAVI	EL MILEAGE			
	TOTAL	MISC CHGS	SEG.	99	
	SEGN	MENT 99 TOTA	AL		
	CFDU.	CE SUPPLIES	SAND		
		RONMENTAL CI			
	MN SA	ALES TAX-6.	875%		

WO Number: WO Date:	WR74182 10/03/16	Make: Model:	CATERPILLAR 980GII 0AWH01803	
Store: Payment Terms: P/O Number: Ship Via:	ROCHESTED	Model: Serial: PIN: Id No: Cust Unit:		
	101010	Meter:		
nvoice Summary			1,2,25	
Parts: Labor: Misc: Taxes:		Amount Due:	\$17,300.8	
Invoice Total:	17,300.83			
10002254		OF THE NEXT MONTH	No.	

Amount Due: \$17,300.83

Amount Enclosed:

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REPAIR LOADER FRAME BORE
CUSTOMER COMPLAINT:
-JOBSITE- ZIEGLER ROCHESTER
RIGHT SIDE Z BAR MOUNTING PIN IS NOT TAKING GREASE
AND SQUEALING. CHECK FOR OTHER LOOSE PINS AND
BUSHINGS
BUSHINGS
     AND SQUEALING. CHECK FOR SINCE
BUSHINGS
REPAIR PROCESS COMMENTS:
FOUND THAT BOTH Z BARS, ROD END CYLINDER, DOG
BONES, AND LOWER BUCKET MOUNTING PINS AND BUSHING
WERE SLOPPY. CUSTOMER DECIDED TO BRING MACHINE
INTO SHOP. REMOVED ZBARS AND DOG BONES. FOUND
THAT UPPER AND LOWER Z BARS PIN BORES WERE
DAMAGED. SEND Z BARS TO CITIES FOR BORE REPAIR
REMOVED THE BUSHINGS IN THE DOG BONES AND PRESSED
IN THE NEW BUSHINGS IN THE DOG BONES AND PRESSED
IN THE NEW BUSHINGS. REMOVED BUCKET FROM MACHINE
AND REPLACED LOWER PINS AND BUSHINGS. MACHINIST
DOG BONE MOUNTS ON BUCKET. LOWER MOUNTS WERE OK.
INSTALLED NEW BUSHINGS IN TILT CYLINDER ROD ENDS.
INSTALLED Z BARS AND DOG BONES WITH NEW PINS.
ATTACHED BUCKET AND GREASED MACHINE.

4 1V-8242
BEARING
N
               1V-9143
                                                                               BEARING SLV
BEARING SLV
      4
               1V-9148
              3B-8489
3V-9705
   10
                                                                                                                                     N
                                                                               ADAPTER STR
                                                                                                                                     S
                                                                               WASHER
              4V-7099
                                                                               PIN A
              7K-9209
                                                                                                                                     N
    8
                                                                               SEAL
              7K-9211
                                                                                                                                     N
    4
                                                                               SEAL
                                                                                                                                     S
    4
              7K-9212
                                                                              SEAL
             7K-9220
                                                                              SEAL
             9K-9731
                                                                             SPACER
PIN AS
PIN AS
           130-2621
185-7219
185-7220
                                                                                                                                    N
                                                                             BEARING-SLEE
                                                                                                                                    N
            186-6319
                                                                             WASHER
                                                                                                                                    N
           186-6320
                                                                             WASHER
                                                                                                                                    N
           222-2367
                                                                             VALVE GP
                                                                                                                                    N
           312-1067
                                                                             PIN AS
                                                                                     TOTAL PARTS
                                                                                                                                                  SEG. 01
                                                                                                                                                        F/R LBR
1.00
                                                                                     LIQ NITROGEN
1.00
                                                                                     LIQ NITROGEN
1.00
                                                                                    HAZMAT
                                                                                    TOTAL MISC CHGS
                                                                                                                                                  SEG. 01
                                                                                      SEGMENT 01 TOTAL
                                                                                                                                                                                                                    7554.63 T
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DEFAIT POSITION SENDOR LINEAGE
CONTINUES CONTLAINT:
AETURN TO DIG NOT FUNCTIONING
CAUGE OF FAILURE:
 TIT POSITION SENSOR MISSING
DATE OF THE COMPLETE GROUP AND INSTALLED ON MACRINE.

DATE OF THE COULD NOT COMPLETE DUE
TO BAN WIFE IN MACRINE HARNESS, ORDERED HARNESS
AND REPLACED, CALIBRATED TILT POSITION SENSOR.

ALSO CUSTOMER ASKED IF WE COULD CALIBRATE LIFT
AND TILT JOYSTICKS, COMPLETED CALIBRATIONS.
CHECKED FOR PROPER OPERATIONS. GOOD.
                                           BULLT
     TX-0818
                                          BOLT
     78-7662
78-7729
                                           ROD END
                                           WASHER
    87-4121
                                          WASHER-HARD
    07-4136
07-4137
                                          BOLT
    ST-4138
ST-4195
                                          BOLT
                                          BOLT
   8T-4224
8T-4970
                                          WASHER
                                          BOLT
    ST-4971
                                          BOLT
    多女一之480
    88-8256
                                          WASHER
                                          WASHER
    88-8256
                                                                           20
                                          CLIP
    136-4192
                                          BOLT
                                          NUT-HEX
    160-8500
                                                                           N
    166-0599
                                          ROD
                                          ARM AS. - BA
COVER - TILT
                                                                           N
    206-5591
    206-5595
                                                                          N
                                          BRACKET AS.
PLATE
                                                                           N
    212-8810
   214-3616
214-3617
                                                                          N
                                          PLATE
                                          COVER AS.
   216-8508
                                                                          N
   266-2337
278-7074
                                          SENSOR GP-PO
                                          HARNESS
                                                                          N
   278-7075
                                          BRACKET
                                                                          N
    278-7076
                                          BRACKET
                                                                           N
                                               TOTAL PARTS
                                                                                    SEG. 03
                                               TOTAL LABOR
                                                                                    SEG. 03
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SEGMENT 03 TOTAL

2007.30 T

MANUAL OR AUTO, CHECKED NITROGEN CHARGE FOUND IT
WAS EMPTY, CHARGED SYSTEM CHECK OPERATION IT
WORKED, CHECKED FOR LEAKS FOUND SCHROEDER VALVE
WAS LEAKING, ORDERED VALVE WENT BACK AND
REPLACED VALVE ASSY., CHARGED TO 517 PSI AT 40
DEG., CHECKED OPERATION, IT WORKED, DEMONSTRATED
TO OPERATOR HOW SYSTEM FUNCTIONED, AS HE WAS NEW
TO THIS MACHINE, RETURNED MACHINE TO SVC

SEGMENT 04 TOTAL

.00 T

MACHINE/GRIND/MILL 2 BUCKET CONTROL
REPAIR PROCESS COMMENTS:
[MPLS] PRESS IN THE CENTER BEARING ON (1) Z BAR
BUCKET LINKAGE. THEN SET-UP THE (1) Z BAR LINKAGE
IN THE HORIZONTAL MILL LOCATING IN (2) SEPARATE
OPERATIONS ON THE (2) PIN BORES. MACHINE THE
LARGER PIN BORE TO 3.503" AND THE SMALLER TO
3.003". CHAMFER AND DE-BUR. INSTALL THE (2)
CENTER DIRT SEALS AND (1) ZERK. GREASE THE
BEARING. INSTALL THE (2) PINS AND SNUG THE
RETAINING BOLTS. THE OTHER Z BAR SET-UP AND
MACHINED BY DAN BUCHANAN.

F/R LBR

SEGMENT 70 TOTAL

MACHINE/GRIND/MILL LOADER FRAME BORE
REPAIR LOADER FRAME WELD AND MACHINE
Z BAR BORES ON THE THE LOADER FRAME
REPAIR PROCESS COMMENTS:
Z BARS AND DOGBONES HAD BEEN REMOVED FOR
REPAIRS, RAISE UP LOADER ARMS AND BLOCK. GRIND 4
BORES AND WELD 1 PASS
EACH , MACHINE TO SIZE PIN 4.998 BORES 5.002. CLEAN
UP AND INSTALL PIN. USED 8 LBS SOLID WIRE.

F/R LBR

SEGMENT 71 TOTAL

MACHINE/GRIND/MILL BUCKET
REPAIR PROCESS COMMENTS:
GRIND 4 BORES AND WELD 1 PASS EACH , MACHINE TO
SIZE PIN 2.498 BORES 2.501. CLEAN UP 4 FACES AND
INSTALL PINS. USED 3 LBS
SOLID WIRE. INSTALL PINS.

F/R LBR

SEGMENT 72 TOTAL

RAVEL TO/FROM MACHINE FLAT RATED TRAVEL AT 100.00

F/R LBR

SEGMENT 98 TOTAL

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HYDRAULIC HOSES/LINES
            USTOMER COMPLAINT:
JOBSITE- SALEM CORNERS, MN
OSE LEAKING UNDER CAB
EPAIR PROCESS COMMENTS:
  REPAIR PROCESS COMMENTS:
INSPECTED, FOUND LEAK, ADVISED CUSTOMER CAB
WOULD HAVE TO COME OFF TO ACCESS HOSE. TOPPED OFF
HYD TANK SO MACHINE COULD BE RAN ENOUGH TO RAISE
LOADER FRAME, REMOVED FRONT COVER FOUND A OIL
LINES WERE ALSO LEAKING, CUSTOMER THAT 2 STEEL
LINES WERE ALSO LEAKING, CUSTOMER AUTHORIZED
REPLACEMENT OF STEEL LINES, ORDERED PARTS, WENT
BACK NEXT DAY AND LIFTED CAB UP, HAD TO EVACUATE
A/C SYSTEM AS QUICK COUPLERS WERE FROZE, HAD TO
CUT/ RESPLICE, BY PASS WIRES ON BACK OF CAB,
BLOCKED CAB UP REMOVED BLOWN HOSE, ALSO FOUND
AUSTIN WANTED THAT HOSE ALSO REPLACED, TOOK HOSES
BACK TO SHOP AND HAD FABRICATED, INSTALLED HOSES
REPLACED MISSING CLAMPS SO HOSE WOULD NOT RUB
THROUGH AGAIN, INSTALLED NEW HYD TUBES/ FITTINGS
UP FRONT, ALSO REPLACED BROKEN INSPECTION COVER
ON RADIATOR FRAME THAT WAS ALLOWING AIR TO BY
PASS RADIATOR PER AUSTIN, RECHARGED A/C SYSTEM,
SYSTEM COOLED TO 55 DEG ON 90 DEG DAY, TOPPED OFF
HYD OIL, TOD CAB MOUNTS, CHECKED MACHINE
OPERATION, CLEARED FAULT CODES, MACHINE IS
SHOWING ACTIVE CODE FOR AIR FILTER RESTRICTION,
ADVISED AUSTIN, AUSTIN IS GOING TO ADDRESS.

5 6V-8397 SEAL S5

5 6V-8397 SEAL
              6V-8397
    531
                                                                                       SEAL
SEAL O RING
            6V-8398
              6V-8636
                                                                                       CONNECTOR
              6V-8724
                                                                                       ELBOW
             6V-9850
7K-1181
8M-2773
                                                                                       ELBOW
                                                                                                                                                     S5
                                                                                       STRAP CABLE
                                                                                       CLIP
             9X-3265
9X-3490
                                                                                      SEAL
                                                                                      SEAL
                                                                                                                                                     S5
            138-8063
187-6257
                                                                                      TUBE AS
                                                                                      TUBE AS
                                                                                                                                                    N5
            189-5594
197-1305
  1
                                                                                    COVER AS.
                                                                                     HOSE AS
LOCK AS
            226-0291
            226-0321
                                                                                      CAM-LOCK
            295-4738
                                                                                      HOSE AS.
                                                                                               TOTAL PARTS
                                                                                                                                                                      SEG. 01
                                                                                               TOTAL LABOR
2.00
                                                                                                                                                                      SEG. 01
                                                                                               R134A FREON (OZ)
                                                                                               TOTAL MISC CHGS
                                                                                                                                                                      SEG. 01
                                                                                                  SEGMENT 01 TOTAL
                                                                                                                                                                                                                                                    3890.22 T
RAVEL TO/FROM MACHINE
0.00
                                                                                                                                                                         F/R LBR
                                                                                              TRAVEL MILEAGE
                                                                                             TOTAL MISC CHGS SEG. 99
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