

MID COUNTRY MACHINERY, INC.

4718 Sergeant Road

Waterloo, IA 50701

319-234-8710

www.midcountry.com

A01-29

Ship To:

SAME AS BELOW

Invoice To:

Vieth Construction Corp
6419 Nordic Dr
Cedar Falls IA 50613

950

Attention: Primary Contact

Branch			
WATERLOO			
Date	Time	Page	
01/30/24	12:28:11 (O)	01	
Account No.	Phone No.	Invoice No.	
VIETH001	3192771006	W15728	
Ship Via	Purchase Order		
			Salesperson
			144

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
C9001554	CAT 950F LOADER	22908	5SK02322	
	950F			

SEGMENT# 1 C 243 NA 11/30/23 12/13/23 11/10/23

LEAK AND FOOT THROTTLE ISSUE

COMPLAINT:

12/27/23

1245-215

ZL

DETERMINED GREASE SEALS WERE BAD SO I HAD PARTS ORDER.
CONTINUED TO PUT THE REST OF THE BODY PANELS ON AND TIGHTEN
DOWN, DOUBLED CHECK PREVIOUS HOSES REPLACEMENTS FOR LEAK
AND REINSTALLED INSPECTION PLATES.

CORRECTION:

12/13/23 ZL

ATTEMPTED TO FOLLOW ALL THE RUN OFF LEAKS TO THE GENERAL
LOCATION OF SOURCE. I HAD TO STEAM CLEAN. I TOOK MACHINE OUT
TO WARM UP AND IDENTIFY LEAK SOURCE. AFTER VISUALLY SEEING
THE FLOW OF THE HYDRAULIC LEAK I BROUGHT MACHINE BACK IN
SHOP. REMOVED PANELS SO I CAN DETERMINE EXACTLY WHICH LINE
IT IS. THE L/H STEER CYLINDER IS LEAKING AS WELL. THE R/H
STEER CYLINDER HAS A HOSE/FITTING LEAK.

12/14/23 ZL

TOOK MACHINE OUT TO WARM UP AGAIN AFTER ALL PANELS REMOVED.
BROUGHT BACK IN TO SEPARATE HOSES. ARTICULATING MACHINE
WHILE RUNNING, SEPERATED HOSES AND FINALLY FOUND PIN HOLE
COMING FROM A HOSE. REMOVED THE LINE. ALSO REMOVED THE
RIGHT SIDE CYLINDER HYDRAULIC HOSE TO LET DRAIN BEFORE
REPLACING O'RING AND RECONNECT.

12/18/23 ZL

VERIFIED THAT THE PEDAL ISSUE WAS IN THE PEDAL NOT THE
THROTTLE LINKAGE. STARTED UNBOLTING PEDAL FROM THE FLOOR,

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REMOVED PEDAL THEN REMOVED BEARING AND SHAFT FROM PEDAL.
THEN REMOVED PEDAL HOUSING AND LINKAGE FROM HOUSING TO
REMOVE THE BEARING IN THE HOUSING ITSELF. CLEANED HOUSING
GASKET FROM HOUSING AND CLEANED SURFACE OF HOUSING FOR NEW
GASKET.

12/18/23 ZL

REMOVED LEFT STEER CYLINDER FOR RESEAL.

12/19/23 ZL

GOING OVER THE MACHINE FOR MORE HYDRAULIC LEAKS AND FOUND A
MAIN HOSE GOING TO THE LEFT TURNING CYLINDER WITH
EXCESSIVELY WEAR, STEEL BRAID SHOWING. REMOVED CLAMPS AND
THE HOSE.

12/19/23 ZL

RETURN WITH NEW HYDRAULIC LINE CLEANED SURFACES AND
REINSTALLED LINES AND CLAMPS

12/20/23 ZL

ALL THE PARTS FOR THE FOOT PEDAL ARRIVED. RE-ASSEMBLED AND
RE-INSTALLED FOOT PEDAL.

12/15/23 ZL

REPLACED HYDRAULIC LINE TO RIGHT BUMP STOP FOR STEERING, NO
LEAKS AND WORKING PROPERLY. REPLACED O'RING TO RIGHT
ARTICULATING CYLINDER, NO LEAKS AND WORKING PROPERLY.
MACHINE WAS WARMED UP AND RAN AROUND THE LOT TO ENSURE NO
MORE MAJOR LEAKS.

12/27/23 ZL

REPLACED SEAL KIT IN L/H STEER CYLINDER. GREASE SEALS WERE
NOT REUSABLE - ORDERED FOR TOMORROW.

12/29/23 ZL

REPLACED GREASE SEALS ON LEFT SIDE STEER CYLINDER.
REINSTALLED CYLINDER, ATTACHED LINES, TIGHTENED DOWN HOSE

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STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
C9001554	CAT 950F LOADER	22908	5SK02322		
	950F				
	CLAMPS. CAP OFF HYDRAULIC FLUID.				
IFRT	INBND FREIGHT	1		42.16	42.16
OP06801286	HYD HOSE	1		147.99	147.99
OP06801401	HOSE ASSY	1		317.80	317.80
1B8704	KEY	1		1.13	1.13
2V7859	BEARING	2		11.76	23.52
2401881	KIT, SEAL	1		172.53	172.53
40B0M	TRANS DRAULIC-GA	3		23.00	69.00
6P0593	BEARING	2		16.47	32.94
7K9203	SEAL	4		12.89	51.56
8V1598	GASKET	1		18.31	18.31
8V1612	SHAFT	1		130.31	130.31
	PARTS				1007.25
	LABOR				2925.00
12011000	SEGMENT TOTAL==>				3932.25

***** WORK ORDER TOTALS *****

PARTS	1007.25
LABOR	2925.00
ENVIROMENTALFEE	7.00
SHOP SUPPLIES	204.75
SUB TOTAL==>	4144.00
IOWA STATE 6%	248.65
BLACK HAWK CO 1%	41.44
CHARGE SALE	4434.09