

Service Invoice

Invoice Date

3/4/2019

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Store Location

Bill To:

Jobsite:

1172 3 MB 0.428 E0097 I0780 D4583185424 S2 P6206490 0002:0011

Account Number		Invoice Number		Customer PO		Division	
Document Number		Payment Terms		Service Call Date		Service Writer	
		CHARGE- 15th Day of Following Month		01/09/2019			
Make	Model	Serial Number		Customer Equipment Number		Equipment Number	Last Meter
AA	615C	9XG01288				HU08_1	5513

Workscope

Extended Price

Remove & Install - Engine

Customer complaint:

removed and install engine.

Resultant damage:

installed new engine.

Repair process comments:

Disconnected hoses and electrical harness from engine. Removed cooling pack. Pulled engine out of machine. installed new reman engine into the machine. connected hydraulic hoses and fuel hoses. connected wiring harness. installed cooling pack. Filled machine with coolant, hydraulic oil, engine oil, and serviced the transmission. ran machine and topped off fluid levels. adjusted and checked fuel settings on the governor. installed new cab heater hoses. installed guards under machine and the hoods.

*Please Review***Parts**

1	20R1670	Eng Ar Bas
1	20R1670CC	Eng Ar Bas-CoreChg
1	2884211	WIPERS
2	1261768	SOCKET
2	1070613	SWITCH AS
1	1H8128	SEAL-O-RING
2	1R0732	FILTER A
4	2H6338	SEAL
1	5P3092	SEAL
1	1R0719	FILTER A
1	2S8439	SEAL O RING
276	5P0767	CM-HOSE STK
1	2D7325	TEE
16	6V8397	SEAL
174	4568410	4568410
2	1242114	COUPLING
11	2388648	CAT ELC
63	4231981	IN HOSE BULK
-63	4231981	IN HOSE BULK
25	4231981	IN HOSE BULK
1	4S8569	SPRING
1	3R2360	CLIP
2	2388648	CAT ELC
1	8H5306	KEY
38	CTO1556213	BULK 30W TDTO
188	CTO3145168	BULK 10W HYD ADV
2	3887012	CLAMP-BENT B
8	4J0522	SEAL-O-RING
10	6V9746	SEAL O RING
6	5K9090	SEAL O RING

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5	3K0360	SEAL
6	6V8398	SEAL O RING
4	4J0520	SEAL-O-RING
1	4J5267	SEAL-O-RING
1	4J0524	SEAL-O-RING
3	6V8400	SEAL-O-RING
1	6D0918	VALVE A
1	6N8514	SWIVEL
32	CTO3145168	BULK 10W HYD ADV
30	CTO5153960	CAT DEO-ULS 10W-30 CK4 Bulk
-1	3887012	CLAMP-BENT B
12	CTO1556213	BULK 30W TDTO
24	CTO3145168	BULK 10W HYD ADV
6	CTO5153960	CAT DEO-ULS 10W-30 CK4 Bulk
2	MTK451029	TUBING, NYL, 1/8"
1	FLESF62-2	SPLIT FERRULE TRAN
8	5M3062	BOLT
8	8T4896	WASHER
1	2884211	WIPERS
1	6I2004	GASKET
1	1503724	GASKET
1	8I1840	HOSE
3	CTO5153960	CAT DEO-ULS 10W-30 CK4 Bulk
4	CTO3145168	BULK 10W HYD ADV
1	20R1670WC	Eng Ar Bas-CoreChg
-1	20R1670WC	Eng Ar Bas-CoreChg
1	RCE	Reman Core Exchange Fee

Labor

Flat Rate Labor

Miscellaneous

1	FRT
1	FRT
1	FRT
1	FRT
1	FRT
1	FRT
-1	CAT_PRT

Total Segment Parts
Total Segment Labor
Total Segment Miscellaneous

Segment Total**Transfer Components To/From - Engine****Customer complaint:**

transfer parts from old engine to the new engine.

Resultant damage:

old engine had two holes in the block

Repair process comments:

Transferred fittings, plugs, wiring harness, fan, brackets for alternator and ac compressor, Suspension pump, torque converter housing, and starter. Installed new v-belts, engine oil pressure switches, coolant flow switch, oil filter housing, air compressor hoses. checked and adjusted fuel settings.

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Parts

1	1448299	SEAL-O-RING
1	1R0739	FILTER AS
1	4H7869	GASKET
2	4W1203	CUP
1	4W2042	SPACER
1	5L8855	RING
1	5P0599	CLAMP
1	5S9062	SPACER
1	6I2503	ELEMENT AS
1	6I2504	ELEMENT AS
1	6V9748	SEAL
1	9F4446	RING
1	1757904	SEAL-O-RING
1	2H6338	SEAL
1	8M7065	GASKET
1	6L1883	GASKET
1	2033222	SWITCH AS-TE
1	1P4278	CLAMP
1	1070613	SWITCH AS
1	3181181	SENSOR GP
1	0694080	FITTING
1	2033220	SWITCH AS-TE
1	3B7721	BUSHING
1	1780169	V-BELT SET
1	7C8236	V BELT
2	7J8611	FITTING
1	5P0599	CLAMP
1	4N4937	HOSE A
1	4N3841	GASKET
1	1S7107	GASKET
-1	7C8236	V BELT
1	LOC37127	QUICKSTIX 561

Labor

Flat Rate Labor

Miscellaneous

1	FRT
1	FRT
1	FRT
1	FRT
1	FRT
1	FRT

Total Segment Parts
Total Segment Labor
Total Segment Miscellaneous

Segment Total**Replace - Transmission - Flow Control Valve****Customer complaint:**

replace coolant flow valve on engine.

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Resultant damage:

not functioning.

Repair process comments:

installed new flow valve on engine.

Parts

1 1718710

Flat Rate Parts
SWITCH GP-FL

Total Segment Parts
Total Segment Labor
Total Segment Miscellaneous

Segment Total

Flush - Hydraulic Tank

Customer complaint:

flush hydraulic tank.

Resultant damage:

none

Repair process comments:

Removed drain plug dumped oil into the tank to flush water out of the tank.

Parts

1 7H1447

CAP

1 5M2057

SEAL

16 CTO3145168

BULK 10W HYD ADV

Labor

Flat Rate Labor

Total Segment Parts
Total Segment Labor
Total Segment Miscellaneous

Segment Total

Repair - Parking Brake

Customer complaint:

repair parking brake.

Resultant damage:

worn brake shoes.

Repair process comments:

Removed parking brake drum and brake shoes. installed new shoes. adjusted parking brake.

Parts

2 2839978

Flat Rate Parts
SHOE AS

Labor

Flat Rate Labor

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Workscope

Extended Price

Total Segment Parts

Total Segment Labor

Total Segment Miscellaneous

Segment Total

Replace - Hose(S) - Engine Oil Filter

Customer complaint:

install new remote oil filter hoses.

Resultant damage:

none

Cause of failure:

hard and brittle

Repair process comments:

removed old hoses and installed the new hoses.

Parts

	Flat Rate Parts
1 1242024	COUPLING
63 4568422	4568422
1 1241973	COUPLING
132 4568422	4568422
1 1242013	COUPLING
1 1241973	COUPLING
1 1241973	COUPLING
1 1241973	COUPLING
1 9S7754	UNION
100 4568422	4568422
2 0016286	COUPLING
22 9X2373	IN HOSE STK
1 0324872	END
1 0016286	COUPLING
13 9X2373	IN HOSE STK
2 1241973	COUPLING
1 1242013	COUPLING
-1 1241973	COUPLING
-1 1242013	COUPLING
-63 4568422	4568422
-100 4568422	4568422
-1 1241973	COUPLING
-2 1241973	COUPLING
1 1242013	COUPLING
1 1242013	COUPLING
-1 1242013	COUPLING
-1 1242013	COUPLING

Miscellaneous

1

FRT

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Total Segment Parts
Total Segment Labor
Total Segment Miscellaneous

Segment Total

Replace - Hub - Fan Bearing

Customer complaint:

install new bearings in fan hub.

Resultant damage:

none

Cause of failure:

worn bearings.

Repair process comments:

Disassembled fan hub removed bearings and cleaned parts. packed new bearings with grease and assembled hub.

Parts

2 4W1204 CONE

Labor

Flat Rate Labor

Total Segment Parts
Total Segment Labor
Total Segment Miscellaneous

Segment Total

Replace - Valve - Fuel Shutoff

Customer complaint:

Replace fuel shut off valve.

Resultant damage:

handle snapped off.

Repair process comments:

installed new fuel shut off valve

Parts

1 8T0081 Flat Rate Parts
VALVE

Labor

Flat Rate Labor

Total Segment Parts
Total Segment Labor
Total Segment Miscellaneous

Segment Total

Replace - Battery

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Customer complaint:

Replace batteries.

Resultant damage:

bad batteries.

Cause of failure:

no voltage from sitting for several years.

Repair process comments:

removed batteries, cleaned dirt out of battery box, and cleaned cable ends. installed new batteries.

Parts

2 1152422

Flat Rate Parts

BATTERY

Labor

Total Labor

Total Segment Parts

Total Segment Labor

Total Segment Miscellaneous

Segment Total

Replace - Hoses & Lines**Customer complaint:**

replace hoses.

Resultant damage:

leaking or brittle

Cause of failure:

Brittle or leaking

Repair process comments:

Replaced fuel hoses that run over the hitch and fuel lines that come out of the scarper frame on the right side of the machine. Replaced hydraulic hoses that run over the hitch. Replaced a hydraulic oil cooler hose.

Parts

50	3718949	CM HOSE BULK
1	2T2108	HOSE A
1	8I1397	HOSE AS
1	2T2109	HOSE A
1	2T2130	HOSE A
1	2T2129	HOSE A
2	1242117	COUPLING
127	4568416	4568416
1	1242130	COUPLING
1	1242114	COUPLING
122	4568410	4568410
1	1242013	COUPLING
1	1241973	COUPLING
160	4568422	4568422
14	3718954	CM HOSE BULK
1	2T2549	HOSE A

Labor

Flat Rate Labor

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Total Segment Parts
Total Segment Labor
Total Segment Miscellaneous

Segment Total

Remove & Install - Wiring Harness(es)

Customer complaint:

Replace wiring harness.

Resultant damage:

high voltage drop.

Repair process comments:

Removed wiring harness that went from under the cab to over the hitch and harness from the hitch to the rear harness on the scraper. both wiring harness had high resistance causing rear electrical componts not to work. after new harness were installed rear components were working.

Parts

1	2T3312	HARNESS AS
25	3S2093	TIE
20	7K1181	TIE
2	6D3479	CLIP
1	2912432	HARNESS AS
1	2912433	HARNESS AS
1	1922887	GUARD
3	3S8665	CLIP
5	6D3479	CLIP
1	1305300	CLIP

Labor

Total Labor

Miscellaneous

1	FRT
1	FRT
1	FRT

Total Segment Parts
Total Segment Labor
Total Segment Miscellaneous

Segment Total

Remove & Install - Instrument Panel/Control Panel

Customer complaint:

Repair flashing lights on the dash

Resultant damage:

dash light was flashing

Repair process comments:

primary steering light was flashing. checked voltage at the primary steering connector. no voltage at the connector. had 5 volts out of the monitor. Ran new wire to the connector. light was no longer flashing on the dash. Sticker on the monitor was for a 613. replaced sticker with the correct 615 film.

Parts

1	1719845	CONTROL GP
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1	8X8655	FILM DASH
1	1552270	PLUG KIT
-1	1719845	CONTROL GP

Labor

Total Labor

Miscellaneous

1	FRT
1	FRT

Total Segment Parts
Total Segment Labor
Total Segment Miscellaneous

Segment Total

Replace - Starter

Customer complaint:

Replace starter

Resultant damage:

engine will not start

Cause of failure:

bad solenoid.

Repair process comments:

Removed starter from engine, installed new reman starter.

Parts

1	10R0399	MOTOR GP ELE
1	4H7869	GASKET
1	10R0399CC	MOTOR GP ELE-CoreChg
-1	10R0399WC	MOTOR GP ELE-CoreChg

Labor

Total Labor

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Total Segment Parts
Total Segment Labor
Total Segment Miscellaneous

Segment Total

Total Invoice Parts
Total Invoice Labor
Total Invoice Miscellaneous
Total Tax

Please detach and include this portion with your payment.

Account Number	Invoice Number	Invoice Date
		03/04/2019

Please Pay This Amount:

\$47,616.29

Claims for shortages or damages must be made within 5 days of receipt of invoice.

Approved returns subject to restock/handling charges.