



Service Invoice

1

Benco Machinery, LLC
7600 N Bryant Ave.
Oklahoma City, OK 73121
P.405.486.7789

Customer Number:
10019
Customer PO #:

Work Order #:	18001134
Date Opened:	1/7/2020
Date Closed:	3/27/2020
Tech:	DT/ Charlie

Customer Info:
Benco Machinery, LLC
7600 N. Bryant Ave
Oklahoma City, OK 73121

Location of Repair:
Benco yard
Oklahoma City, OK

Make	Model	Serial Number	Hours In	Hours Out
CAT	583	66V5338		

Service requested:
Turbo issue and engine rebuild

Work Order Summary per segment:	Outside Lbr.	Parts	Repair Labor	Mileage	Segment Total
01] Diagnose problem with turbo and engine rebuild	\$0.00	\$9,749.51	\$4,120.56	\$0.00	\$13,870.07
02] Outside labor: clean & mag head, crank and block	\$6,237.53	\$0.00	\$0.00	\$0.00	\$6,237.53
Freight & Misc.					\$782.28
Total					\$20,889.88

Work Performed 1]	Part #	Description	Quantity	Price
Rebuild engine and replace turbo.	0R-5840	REB TURBO	1	\$2,135.59
	3E-6916	NUT	4	\$28.60
	8M-2295	BOLT	4	\$27.00
	5P-9228	GASKET KIT	1	\$64.45
	5M-6213	PLUG	1	\$4.47
	379-0169	OIL PUMP	1	\$1,185.16
	2P-3759	GASKET	1	\$159.32
	6L-5311	GASKET	1	\$17.35
	9M-5376	GASKEY	2	\$6.76
	G60596-0404	BRASS FITTING	2	\$0.80
	G55050-0004	BRASS FITTING	2	\$0.72
	W7340	BRAKE CLEANER	12	\$60.96
	83748	CABLE TIES	1	\$15.66
	NIF	FASTENER	1	\$9.02
	5F-1914	DOWEL	4	\$34.72
	9H-1077	STUD	16	\$671.84
	9M-0488	STUD	26	\$534.30
	15W40	15W40 OIL	13	\$207.87
	COOLANT	COOLANT	23	\$381.80
	5H-4380	TUBE	1	\$110.25
	6H-4047	TUBE	2	\$186.38
	6H-4045	TUBE	1	\$107.07
	6H-4043	TUBE	3	\$570.96
	7N3352	PLATE	2	\$752.94
	1B-8709	KEY	1	\$1.93
	7N-3350	GEAR	1	\$516.42
	7N-4188	BRACKET	1	\$1,390.71
	394-0889	SFT- PUMP	1	\$238.54

Thank you for your business!

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3H-3387	COUPLING	1	\$75.27
7N-3346	COLLAR	1	\$49.85
5B-4696	PIN	1	\$4.48
20D556	TAPPER PIN REAMER	2	\$122.36
38657	HIFLEX GSK MK	2	\$46.52
1540591	HI-TCK GSK SLT	1	\$18.40
1914-01-004	1/2x13x3 ALL THREAD	2	\$7.28
21883-002	SPLIT PT. DRILL BIT	2	\$3.76

	Hours/Mileage	Rate	Total		Parts Total	\$9,749.51
Travel Labor			\$0.00		Travel Labor	\$0.00
Mileage			\$0.00		Mileage	\$0.00
Repair Labor	42.48	\$97.00	\$4,120.56		Repair Labor	\$4,120.56

Work Performed 2] Outside labor: Clean and mag head, crank and block			Part #	Description	Quantity	Price
	Hours/Mileage	Rate	Total		Parts Total	\$0.00
Outside Labor	1	\$6,237.53	\$6,237.53		Outside Lbr.	\$6,237.53
Mileage			\$0.00		Mileage	\$0.00
Repair Labor			\$0.00		Repair Labor	\$0.00

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Explanation of work performed:

The complaint from the operator was lack of power. I started the machine and tested it in the yard. I found a possible issue with the turbo. I removed the side panel to gain access to the turbo. I found that the turbo was scored and the bearing was bad. I also removed the valve cover to check the top side of the engine. It seemed there was lack of oil. It was decided to replace the oil pump as well. Needed parts were ordered from CAT to complete the repair. I removed the turbo lines and hardware. I cleaned the mounting surface and installed new gaskets, turbo and hardware. Then I removed the belly pan and removed the oil pan to access the oil pump. I removed the bad pump and installed the new one. I secured the oil pan with hardware and tightened to spec. I filled with oil that was provided by Bennett Construction. I started the machine to make sure repairs were complete. The engine still seemed low on power, so it was decided to transport the machine to the OKC yard for an engine rebuild. I replaced the access panel and the belly pan before the machine was loaded on to the trailer.

Charlie with Bennett Construction will provide the labor and Benco will provide the parts for the machine to be completely repaired. Once the machine arrived in the OKC yard, it was moved to the shop and secured. All of the fluids were drained, the hoses, lines, tubes, wiring and mounting bolts were removed. A crane was used to remove the engine from the machine and set it on a stand. Charlie and Shane tore down the engine. The heads and block were sent to the machine shop. The machine shop cleaned and mag heads, crankshaft and block. They also checked the linebore and installed an overhaul kit.

Due Date	NA
Please Pay This Amount	\$20,889.88

Thank you for your business!

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Service Invoice

1

Benco Machinery, LLC
7600 N Bryant Ave.
Oklahoma City, OK 73121
P.405.486.7789

Customer Number:
10019
Customer PO #:

Work Order #:	18001123
Date Opened:	10/25/2019
Date Closed:	12/26/2019
Tech:	DT, AD, CS

Customer Info: Benco Machinery, LLC 7600 N. Bryant Ave Oklahoma City, OK 73121
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Location of Repair: Merkel yard Merkel, Texas
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Make	Model	Serial Number	Hours In	Hours Out
CAT	583	66V05338	NA	

Service requested: Repair numerous issues.
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Work Order Summary per segment:	Travel Labor	Parts	Repair Labor	Mileage	Segment Total
01] Repair hydraulic leaks	\$438.82	\$4,323.80	\$15,727.58	\$900.00	\$21,390.20
Freight & Misc.					\$13.38
Total					\$21,403.58

Work Performed 1]	Part #	Description	Quantity	Price
Diagnose and repair hydraulic and transmission leaks.	3J-1907	Seal	8	\$9.20
	2S-6458	Gasket	2	\$8.40
	5H-1190	Seal	2	\$11.48
	9H-8890	Gasket	4	\$13.52
	2P-6286	Seal	4	\$74.16
	124-2104	Coupling	1	\$56.97
	456-8422	716CM Bulk 25.4	77	\$20.79
	456-8423	716 CM Bulk 31.8	41	\$13.53
	124-2056	Coupling	1	\$51.93
	124-2066	Coupling	1	\$64.21
	4J-0522	Seal O-Ring	2	\$5.04
	124-2079	Coupling	1	\$52.45
	124-2103	Coupling	1	\$51.79
	4J-0520	Seal O-Ring	2	\$4.52
	122-6876	L/M Hose - In	24	\$33.36
	124-2052	Coupling	1	\$22.15
	124-2101	Coupling	1	\$40.34
	4J-5267	Seal O-Ring	2	\$3.84
	124-2081	Coupling	1	\$74.39
	124-2105	Coupling	1	\$64.67
	4J-0522	Seal O-Ring	2	\$5.04
	122-6907	L/M Hose - In	25	\$28.00
	3P-8230	Hose	1	\$92.97
	8P-1454	Hose	1	\$140.97
	3P-5934	Hose	1	\$140.74
	8M-5010	Seal O-Ring	2	\$12.84
	3P-5931	Hose	1	\$189.18
	8M-4986	Seal O-Ring	2	\$9.80
	8M-4987	Seal O-Ring	3	\$13.32

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8M-4988	Seal O-Ring	3	\$11.04
9S-4551	Hose	1	\$117.98
4J-5268	Seal O-Ring	2	\$2.52
9M-6542	Gasket	1	\$1.28
2P-5125	Gasket	1	\$4.74
2P-5124	Gasket	1	\$5.10
2S-7472	Gasket	1	\$4.42
17S-7904	Seal O-Ring	1	\$6.86
5H-0779	Gasket	1	\$10.77
1S-6891	Gasket	2	\$10.00
2A-1913	Gasket	1	\$3.82
5H-0779	Gasket	1	\$10.77
9M-0673	Gasket	2	\$21.70
5M-0597	Gasket	1	\$13.65
4H-9073	Bushing	1	\$96.40
0R-7797	Gear Pump	1	\$1,165.04
1H-1200	Pin	6	\$10.20
5B-9079	Nut	2	\$0.60
6P-5726	Rod	1	\$129.64
377-5849	Rodend	2	\$28.68
G60650-0404	Hyd. Fitting	1	\$2.92
G25180-0404	Fitting	2	\$57.76
70605	Hyd. Hose	22	\$16.28
6396	Scrubbing Wipes	1	\$17.82
39360	Shop Towels	1	\$24.19
HOSE32g2	Hyd. Hose	1	\$400.62
30W	30W Trans Fluid	60	\$839.40

	Hours/Mileage	Rate	Total		Parts Total	\$4,323.80
Travel Labor	5.93	\$74.00	\$438.82		Travel Labor	\$438.82
Mileage	300	\$3.00	\$900.00		Mileage	\$900.00
Repair Labor	162.14	\$97.00	\$15,727.58		Repair Labor	\$15,727.58

Explanation of work performed:

I parked the machine in the yard and drained the transmission and torque converter. I removed the ROPS and fuel tank. I pulled the cable out of the hook in order to be able to remove the center bar. I pulled all of the wiring from the instrument panel and the pressure lines to the gauges. I removed all cotter pins and pins for the brakes, throttle and clutches. I removed the instrument panel and set it out of the way. I removed the center bar and brackets for the lines. I removed the PTO housing and replaced the bearings as needed. Then I removed the driveline to the PTO and replaced the U-joints as needed. I removed all of the lines to the torque convertor and transmission. Then I removed the center driveline. I removed the bolts to the torque convertor and made lifting eyes to pull the housing. I removed the torque convertor housing. I removed the large supply lines to the pump and replaced. I removed the scavenger pump housing and the valve bodies. I resealed all of the bodies and pump housings. I cleaned up the torque convertor housing and flywheel housing. I installed new gaskets and seals. I removed and replaced the input transmission seal and output torque convertor seal. I reinstalled the torque convertor housing using new gaskets. I installed all new hoses and seals. Then I installed the drive line and filled the transmission back up with oil. I removed the brake housing covers and valve bodies. I installed the new shaft seals as needed and resealed the mounting surfaces. I resealed the PTO housing and reinstalled it using new gaskets. I reinstalled all of the panels and guards. I installed the fuel tank and ROPS. I started and ran the machine and checked for leaks. Upon reassembly, as soon as the machine started, the main hydraulic pump began smoking. The pump shelled, I removed the pump and had to drain and refill the machine in order to replace the pump and fix the blown seal in

Due Date	NA
Please Pay This Amount	\$21,403.58

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