



Service Invoice

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

Customer Number:
10019
Customer PO #:

Work Order #:	18001124
Date Opened:	10/28/2019
Date Closed:	12/26/2019
Tech:	DT, AD

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	77V18575	NA	

Service requested: Hydraulic leaks and starter
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Work Order Summary per segment:	Travel Labor	Parts	Repair Labor	Mileage	Segment Total
01] Repair hyd. leaks and replace starter	\$0.00	\$1,892.18	\$2,165.04	\$0.00	\$4,057.22
Freight & Misc.					\$69.26
Total					\$4,126.48

Work Performed 1]	Part #	Description	Quantity	Price
Diagnose hydraulic leaks and replace the starter motor.	9S-4551	Hose	1	\$117.98
	5H-4018	Cover	5	\$88.25
	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
	2A-1913	GASKET	1	\$3.82
	9M-0673	GASKET	1	\$10.85
	5M-0597	GASKET	1	\$13.65
	10R-1913	ELEC MOTOR	1	\$753.81
	5H-1190	SEAL	7	\$40.18
	1505538	2SPD DIVERTER VALNE	2	\$425.88
	30W	30W TRANS. Fluid	30	\$419.70

	Hours/Mileage	Rate	Total	Parts Total	\$1,892.18
Travel Labor			\$0.00	Travel Labor	\$0.00
Mileage			\$0.00	Mileage	\$0.00
Repair Labor	22.32	\$97.00	\$2,165.04	Repair Labor	\$2,165.04

Thank you for your business!
Please remit payment to: 7600 N. Bryant Ave Oklahoma City, OK 73121

Explanation of work performed:

The machine will not crank, Richard diagnosed the issue as a starter failure. I received a replacement starter and took it to the machine. I installed the new starter and checked the machine's operation. I drove back to the Merkel, TX yard and had Josh take the core back to CAT for credit.

I drove back to the location to find the leaks on the machine. I found both brake housing covers leaking at the seals. I also found the brake valve leaking out of the needle bearing housing and rear plunger. I drove back to the yard and ordered all of the needed parts to rebuild.

I drove back to the machine's location and removed the ROPS and fuel tank. I pulled both brake housing covers and the valve body. I cleaned both housings and pulled all of the seals. I resealed housings and rebuilt. Then I pulled apart the brake valve and found that the wrong O-ring had been installed in the plunger. I installed a silicone O-ring and used loctite around the needle bearing. I reassembled all of the components on to the machine and reinstalled the fuel tank and ROPS. I started the machine and ran it to test for leaks. The valve body is still leaking. I suspect an issue with the old O-ring allowing the plunger to move and wearing out a hole. I pulled it back off and took valve body to the yard. Then I removed a valve body off a different machine in the yard and drove back to location. I installed the other valve body and tested the machine. No leaks were found and everything is operating properly

Due Date	NA
Please Pay This Amount	\$4,126.48

Thank you for your business!

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