

Tennessee Valley Equipment LLC

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INVOICE

BILL TO		SHIP TO		INVOICE	4286
RPMX Construction		RPMX Construction		DATE	09/17/2024
636 North Shore Lane		300 SANTA FE PIKE		TERMS	Due on receipt
Valley View, TX 76272		COLUMBIA TN 38401		DUE DATE	09/17/2024

DESCRIPTION		QTY	RATE	AMOUNT
Misc Parts	56 Fasteners	7	5.11	35.78T
Misc Parts	6 Pack of Tip B Q12	2	324.48	648.96T
Freight - Parts	Freight / Shipping Charges (for 6 pack of Tip B Q12)	1	112.80	112.80T
Misc Parts	Diagnostics Charge - Vermeer. Road Call	1	607.43	607.43T
Misc Parts	Labor - Vermeer Road Call	1	582.40	582.40T
Misc Parts	Shop Supplies - Vermeer Road Call Supplies	1	30.37	30.37T
Shop Labor	CUSTOMER QUOTED AT 130 PER HOUR SO-1034 MODEL : VERMEER HG400 VIN# 1VRC312H71001002	223	130.00	28,990.00T

Parts removed from the initial list.
Conveyor belt Customer denied- has a rip in the conveyor belt
Light LED Customer denied – lights missing and broken
Engine filters customer denied – recommend service
The customer was told the engine has an oil leak at the time of initial repair the customer denied fixing the engine issues

Parts paid for on 5-15-24 (29,725.39)
Additional parts needed
Tire Replacement - \$1274.64
Anvil with components - \$5025.38
Hydraulic Hose for feed wheel- \$195.35
Bar Retainer - \$111.47
Teeth 6 pack TIP-B – \$761.76

Damage report

A charge of 1.5% per month which amounts to 18% per year on all balances past due.

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Initial damage reports the hammer mill screen is welded with rebar this is incorrect. The rebar gave way and caused tremendous damage to the grinder, screen, and hammer mill. The grinder looks to have been pieced together. The condition is not to factory specifications. Once the hammer mill screen encountered the drum it caused the frame to shift. Once we noticed the frame was the bent, we contacted Vermeer and had a service road technician come out and make sure it was still in specification to the tolerances of warpage. After inspection, the Vermeer tech advised us to fabricate multiple parts for the machine to run properly. Additional parts were also required for repair that were not originally identified because of Vermeer inspection.

Corse of actions

Began disassembly of Vermeer; all bolts that were broken had to be heated up with a torch and removed, drilled and re tapped. All the hammer mill blower cover bolts are broken in addition to all the bolts on the hammer mill cover. Once all the bolts were extracted and re tapped. The disassembly of the hammer mill was started. The drum bearings were pulled, and the shaft is removed in order to remove the drum. The teeth on the drum were damaged. Once the drum is removed all the wear plates inside of the hammer mill cover had to be removed. The wear plates were very damaged and unusable. The hammer mill screens are destroyed. All dust pads had to be replaced with bolts. The screen cam adjuster plates had to be removed, both were bent and the carriage bolts were broken off in the cam adjusters. The anvil had a (I beam bolted to the bottom of it (custom repair not to factory specifications). The anvil has a huge crack down in the center of it. The I-beam is on the anvil. This is something that is not supposed to be there at all. We believe the weight of the I-beam most likely caused that anvil to crack. The anvil cannot be repaired; it is a very extensive process to remove and break the anvil down.

Anvil with components - \$5025.38

Shop Labor

Assembly of grinder

0 150.00

0.00T

Once Techs had all parts, they then had to piece together the grinder. The initial repair started with replacing all the of the dust covers on the conveyor belt. Then the screens and cam adjusters are installed. The screens are two piece and bolted together on each side of the screens. The screen lays on the cam adjusters. The adjusters must be adjusted for proper fitment. Once the new anvil was here, we installed the anvil and noticed it was over hanging past the point it needed to be. Then the anvil had to be removed, to be cut to correct fitment. 5/8" had to be removed from the anvil for fitment. The hold-down holes on the anvil had to be enlarged for proper fitment. Per Vermeer since the machine was so damaged it needed to be custom fit. Once the anvil was installed, the teeth and all bolts had to be changed on the drum. Then the shaft inside the drum had to be replaced. Once the shaft is installed. The drum is then lowered into the hammer mill

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housing. While it is hovering in the air, the bearings are then fitted to the shaft. They must be pressed onto the new shaft on the drum. Once the bearings are pressed, we then had to bolt the housing to the frame. The hammer mill covers must be left off this whole time to check correct fitment. The top hammer mill cover had to be bent back in place the best it could be. The screen hold downs that are in the top cover had to be removed and fabricated to properly hold the screens in place. The wear plate that the screen hold down bolt to have to be removed and shimmed to drop it down $\frac{3}{4}$ " to make sure the screen hold downs are holding it with out it moving at all. Once everything is fit, we then we can install the drive belt. Once the belt is tensioned to the proper tension. The Motor mount bolts must be tightened back up to cinch the belt down. All hammer mill covers and blower covers were left off for the final test. Once machine is tested and running they will be installed. The machine is then greased and checked for proper operation.

Testing of machine

Programed controller per Vermeer everything controller side is operating as it should.

Cranked up engine let engine warm up to operating temperature. Codes throwing for mill speed sensor. Looked at the pictures of when it arrived. These parts were missing completely on the machine. (163628352) Switch prox (163694842) weldment-mill (180015195) Prox Fan (2595011) Clamp hose (4475010) Screw – FLGWZ .38 (35006) Screw – hcs-.25-2 (405001) Nut – Hex -FLGWHIZ the machine. All the components make up the mill speed sensor. This is what controls the auto feed. Once all parts are here and check the tech then installed them. One plate on the weldment mill is no longer available and it had to be custom made.

The machine is then tested again for proper operation, Once the infeed chain started to spin it blew a hydraulic line, This line ran through the feed wheel. Multiple plates had to be removed to access the line. The line was then replaced with new fittings and hydraulic line. The Infeed chain is now operating like it should be.

We began operating the machine again, This time we sequentially ran 25 split trees that are about 12-15 foot long. The auto feed and infeed chain are working as they should be. All functions are working properly and as they should be. Material is grinded and cut then discharged properly. The machine is operational at this time. The engine is leaking oil which was noted to the customer at the beginning of the repair per customer they didn't want to fix the engine oil leak, discharge conveyer belt, all engine filters, and safety lights.

(DO NOT USE) 6204 BRAKE PARTS CLEANER (deleted)	6204 BRAKE PARTS CLEANER	5	4.88999 99	24.45T
Misc Parts	CUTTING OIL	3	13.31	39.93T

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Misc Parts	PB BLASTER	1	0.00	0.00T
Open Stock Hardware (GREEN)	Open Stock Hardware (GREEN)	37	3.20	118.40T
Open Stock Hardware (BLUE)	Open Stock Hardware (BLUE)	6	1.76	10.56T
Open Stock Blue Loctite	Open Stock Blue Loctite		17.48	52.44T
09300...GREASE MYSTIK NO2	06206. GREASE	5	10.13	50.65T
Open Stock Cotter Pin	Cotter Pin	1	0.25	0.25T
Open Stock Hardware (WHITE)	Open Stock Hardware (WHITE)	23	0.85	19.55T
DO NOT USE...RAD640009 10...4 1/2" FLAPPER DISK 80 FRITT	RAD64000910...4 1/2" FLAPPER DISK 80 FRITT	1	14.11	14.11T
Misc Parts	16367982 Anvil Weldment	1	2,746.056	2,746.06T
Misc Parts	163694854 Anvil Front PLA	1	709.884	709.88T
Misc Parts	153694197 Cover-Anvil INS	1	47.16	47.16T
Misc Parts	163704838 Plate-Material	1	31.008	31.01T
Misc Parts	127362001 Washer 1/2 Hard	11	0.504	5.54T
Misc Parts	296300802 Screw HFS .63 1	1	5.58	5.58T
Misc Parts	163679683 Anvil-Shear EDG	1	568.044	568.04T
Open Stock Red Loctite	Red Loctite	4	17.48	69.92T
Misc Parts	ADAPTER ORS 90 DEG ELBOW	1	11.556	11.56T
Misc Parts	MATCHMATE FITTING	2	27.2964	54.59T
Misc Parts	HYDRAULIC HOSE PER FOOT	1	6.30	6.30T
Misc Parts	385 65 R22.5 SUMITOMO ST720	1	747.40	747.40T
Misc Parts	VALVE STEM AND DISPOSAL	1	42.00	42.00T

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Misc Parts	TIRE REPLACEMENT LABOR	3	114.00	342.00T
Misc Parts	grinding disk	4	1.00	4.00T
Misc Parts	FUEL FEE	1	30.00	30.00T
Misc Parts	06201....64000806...4-1/2 CUT OFF WHEEL	1	6.00	6.00T
Misc Parts	FASTENERS	7	4.78	33.46T
Misc Parts	163679688 - BLOCK ANVIL HOLD DOWN	2	410.832	821.66T
Freight - Parts	FREIGHT FOR BLOCK ANVIL HOLD DOWN	1	46.25	46.25T
Misc Parts	147271001 - SCREW HCS .75-1	3	10.476	31.43T
Freight - Parts	FREIGHT FOR SCREW	1	42.00	42.00T
Misc Parts	switch-prox	1	317.75	317.75T
Misc Parts	weldment -mill	1	354.71	354.71T
Misc Parts	Prox Fan	1	57.32	57.32T
Misc Parts	clamp hose/clip	1	2.16	2.16T
Misc Parts	screw-flgwz.38	4	1.48	5.92T
Misc Parts	screw HCS .25-2	1	0.40	0.40T
Misc Parts	Nut-hex-flgwhiz	1	0.28	0.28T
Freight - Parts	Freight / Shipping Charges	1	72.00	72.00T
Open Stock Hardware (WHITE)	Open Stock Hardware (WHITE)	24	0.85	20.40T
Open Stock Hardware (GREEN)	Open Stock Hardware (GREEN)	1	3.20	3.20T
Open Stock Hardware (BLUE)	Open Stock Hardware (BLUE)	1	1.76	1.76T
Open Stock Hardware (GREEN)	Open Stock Hardware (GREEN)	1	3.20	3.20T
Expendables Charge	Expendables Charge (penetrating oil, shop towels, oil dry, etc) THIS INCLUDES ALL WELDING / FAB MATERIALS AND GASSES.	1	850.00	850.00T
Misc Parts	CAT YELLOW PAINT	2	26.095	52.19T
Misc Parts	BAR RETAINER	1	111.47	111.47T
Credit Card Fee	Credit card Processing Fee 3.5% If you want to use a bank transfer please let us know and we can wave this fee.	1	1,520.85	1,520.85T

SUBTOTAL

41,113.53

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Ways to pay



View and pay

TAX	4,008.56
TOTAL	45,122.09
PAYMENT	45,122.09
BALANCE DUE	\$0.00
	PAID

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