

ZIEGLER

C O M P A N I E S

901 West 94th Street
Minneapolis MN 55420-4236

Service Invoice

Minnesota 800-352-2812
Iowa 800-342-7002
Missouri 800-342-7002
Wisconsin 800-342-7002

Invoice SI000053211
Date 7/27/2021
Call Number SC00055617
Location Ziegler Rebuild Center
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Sold to: VEIT & COMPANY INCORPORATED
14000 VEIT PL
ROGERS, MN 55374-9583

Ship to 1201 W 96TH ST
MINNEAPOLIS, MN 55431-2605

Invoice Account

9290700

Payment

AR - Net 10th of the
Following Month

Due Date

9/10/2021

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
GR206966	DR13	C7IND	JTF03324	CU0122041	11,584.00

Summary

Parts	20,678.96
Labor	13,430.00
Misc	-6,609.17
Parts, Labor and Misc	27,499.79

Sales Tax Summary

HENNEPIN COUNTY SALES TAX 0.150%	25.89
HENNEPIN TRANSIT IMPROVEMENT TAX 0.500%	86.56
MINNESOTA STATE SALES TAX 6.875%	1,189.94

Flat Rate Total	0.00
Subtotal	27,499.79

Shop Supplies and Environmental Fees	600.00
Subtotal	28,099.79

Sales Tax	1,302.39
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Total	\$ 29,402.18
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VEIT & COMPANY INCORPORATED
14000 VEIT PL
ROGERS, MN 55374-9583

Invoice
Date
Account

SI000053211
7/27/2021
9290700

Please Remit to:

Ziegler Inc.
SDS 12-0436
PO BOX 86
MINNEAPOLIS, MN 55486-0436

Amount Due:

\$29,402.18

Amount Enclosed:

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SC00055617-002 Recondition - Engine

Customer complaint: RECONDITION ENGINE - MOF

Repair process comments: DISASSEMBLED ENGINE, CLEANED AND INSPECTED ALL PARTS. ASSEMBLED ENGINE AS TO CATERPILLAR PROCEDURES WITH ALL NEW GASKETS AND SEALS. INSTALLED (.010"/.010") CRANKSHAFT P/N 4892731 WITH MAIN BEARINGS P/N 1450162/2295153. INSTALLED CYLINDER PACKS P/N 10R-1930 ALONG WITH ROD BEARINGS P/N 7C6976 . THE ROD AND MAIN BEARINGS WERE THEN TORQUED. INSTALLED THE FRONT GEAR TRAIN ALONG WITH THE FRONT AND REAR HOUSINGS. INSTALLED THE DAMPER AND FLYWHEEL. THE CYLINDER HEAD WAS INSTALLED ALONG WITH THE CAMSHAFT AND 6 INJECTORS P/N 20R-8071. THE ROCKER SHAFT ASSEMBLIES WERE INSTALLED AND THE VALVES WERE ADJUSTED .015" INLET AND .025" EXHAUST. INSTALLED OIL PUMP, OIL PAN, WATER PUMP, EXHAUST MANIFOLD, INTAKE MANIFOLD AND TURBO. INSTALLED ENGINE OIL COOLER ASSEMBLY P/N 0R-8839. THE ENGINE WAS DYNAMOMETER TESTED TO VERIFY PERFORMANCE AND FACILITATE PROPER BREAK IN. THE ENGINE PRODUCED 296 HP @ 2200 RPM. HP SPEC IS 275 HP @ 2200 RPM. THE ENGINE WAS ACCESSORIZED AND PAINTED.

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
GR206966	DR13	C7IND	JTF03324	CU0122041	11,584

Quantity	Type	Part Number	Description	Unit Price	Amount
20.00	Parts	3S2093	Strap-Cable		
1.00	Parts	4P5918	Clip		
2.00	Parts	1051797	Mount-Wire		
1.00	Parts	1982713	Harness As		
1.00	Parts	5201511	Harness As-W		
7.00	Parts	2061345	Strap-Cable		
1.00	Parts	1611704	Sensor Gp-Pr		
1.00	Parts	1611703	Sensor Gp		
2.00	Parts	2147568	Seal-O Ring		
1.00	Parts	2147567	Seal-O-Ring		
1.00	Parts	2244536	Sensor Gp		
2.00	Parts	2284947	Seal-O-Ring		
1.00	Parts	2454630	Sensor Gp-Sp		
2.00	Parts	2644297	Sensor Temp		
2.00	Parts	2385080	Seal-O-Ring		
2.00	Parts	2147566	Seal-O-Ring		
1.00	Parts	2725869	Harness As		
4.00	Parts	4186781	Stud Taperlo		
8.00	Parts	1726298	Bolt-Flange		
8.00	Parts	1898772	Spacer		
4.00	Parts	2033768	Spacer		
4.00	Parts	2107722	Bolt-Flange		
1.00	Parts	1876294	Hose As-Oil		
3.00	Parts	2287089	Seal-O-Ring		
1.00	Parts	9M9840	Clip		
1.00	Parts	2109246	Seal-O-Ring		
1.00	Parts	1180284	Hose A		
2.00	Parts	4W1203	Cup		

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2.00	Parts	4W1204	Cone
1.00	Parts	6V9748	Seal
6.00	Parts	2W7213	Bearing
1.00	Parts	2165586	Bearing-Slee
1.00	Parts	5170553	Gasket
1.00	Parts	6F7062	Washer
1.00	Parts	1154072	Bearing
12.00	Parts	2Y5829	Nut
6.00	Parts	3E9412	Dowel
1.00	Parts	7E0759	Hose
2.00	Parts	1154223	Regulator Tp
2.00	Parts	3473148	Clamp Band
2.00	Parts	6V7238	Valve
12.00	Parts	2359651	Bolt-Socket
2.00	Parts	1910522	Adapter
2.00	Parts	2385081	Seal-O-Ring
1.00	Parts	1640210	Breather As
1.00	Parts	8H2046	Seal-O-Ring
1.00	Parts	9M2904	Clamp
1.00	Parts	2288510	Hose-Disposa
1.00	Parts	2S2053	Clip
1.00	Parts	0684497	Cap Oil F
2.00	Parts	7C1493	Valve
2.00	Parts	2423864	Spring
2.00	Parts	2283581	Film-Warn
1.00	Parts	2295662	Plate
1.00	Parts	4649172	Plate-Cat
1.00	Parts	3N3469	Tag
1.00	Parts	4947113	Kit Gasket
1.00	Parts	4947120	Kit Gasket
1.00	Parts	4562535	Kit Gasket
1.00	Parts	4573085	Kit Gasket
1.00	Parts	1210173	Plate Info
4.00	Parts	8F8151	Valve-Shutof
1.00	Parts	7X6315	Strap
8.00	Parts	8T9655	Mount
1.00	Parts	2955609	Seal-O-Ring
1.00	Parts	3P1156	Seal-O-Ring
1.00	Parts	9F4446	Ring
1.00	Parts	3980940	Switch As-Ma
4.00	Parts	9X6620	Lock-Nut
1.00	Parts	2051280	Hose As.

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1.00	Parts	2284709	Hose As
1.00	Parts	2760733	Hose As.
1.00	Parts	2330077	Hose As
1.00	Parts	2178917	Hose As
1.00	Parts	2001196	Hose As.
1.00	Parts	7E5852	Hose A
2.00	Parts	3725196	Regulator As
1.00	Parts	1369066	Film-Info
1.00	Parts	1R0751	Filter As
1.00	Parts	20R1635	Pump Gp
1.00	Parts	20R1635CC	Pump Gp - Core Charg
6.00	Parts	10R1930	Piston Pk Gp
6.00	Parts	10R1930CC	Piston Pk Gp - Core
2.00	Parts	1R1807	Lube Filter
6.00	Parts	1077604	Sleeve Cyl
1.00	Parts	7L7099	Vee Belt Set
1.00	Parts	2822474	Gasket
1.00	Parts	1342730	Wire As
1.00	Parts	3K3257	Gasket
6.00	Parts	20R8071	Injector G-F
6.00	Parts	20R8071CC	Injector G-F - Core
1.00	Parts	1375541	Pump As
1.00	Parts	1P0436	Gasket
1.00	Parts	4388638	Elbow-Outlet
1.00	Parts	SOS001 - 123	ZIEG000 SOS 1 PACK
1.00	Parts	2831224	Bracket As.
12.00	Parts	8T8442	Bolt
1.00	Parts	1389868	Ring-Retain
6.00	Parts	7C6976	Brg-Con Rod
1.00	Parts	2295153	Bearing-Thru
6.00	Parts	1450162	Bearing Main
1.00	Parts	5B1866	Plug
1.00	Parts	2274531	Cap As-Fill
1.00	Parts	8N2694	Indicator
2.00	Parts	8T0281	Bolt
2.00	Parts	2P1294	Plug
1.00	Parts	1611705	Sensor Gp
1.00	Parts	8T6765	Plug Pipe
2.00	Parts	6V9873	Connector
2.00	Parts	2287090	Seal-O-Ring
2.00	Parts	8T1159	Bolt
2.00	Parts	3V2431	Washer

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2.00	Parts	1717212	Sleeve-Repai
4.00	Parts	2R6806	Adapter-Str
1.00	Parts	2002258	Gasket
1.00	Parts	5S9062	Spacer
1.00	Parts	5A3604	Bolt
2.00	Parts	1889644	Screw-Flat
1.00	Parts	2089284	Bolt-Flange
1.00	Parts	2465083	Sleeve-Space
4.00	Parts	4B5324	Washer
1.00	Parts	8N3504	Vee Belt
1.00	Parts	9S8004	Plug
4.00	Parts	9X6258	Screw
1.00	Parts	3261643	Filter As
1.00	Parts	2732838	Sleeve-Space
1.00	Parts	2229840	Hose As
1.00	Parts	7C6921	Spacer
1.00	Parts	1623148	Stud-Bolt
1.00	Parts	2096477	Hose
2.00	Parts	1979372	Retainer-Pin
1.00	Parts	3435527	Bowl As Fuel
1.00	Parts	5B3254	Nut
1.00	Parts	2654041	Hose As.
2.00	Parts	1440367	Clamp
-1.00	Parts	20R1635WC	Pump Gp - Worn Core
-6.00	Parts	10R1930WC	Piston Pk Gp - Worn
1.00	Parts	3732790	Bracket
-6.00	Parts	20R8071WC	Injector G-F - Worn
1.00	Parts	2355262	Cable As
1.00	Parts	2355263	Cable As
-4.00	Parts	8F8151	Valve-Shutof
-1.00	Parts	6V9873	Connector
1.00	Parts	10R8886	Head Gp Cyl
1.00	Parts	10R8886CC	Head Gp Cyl - Core C
-1.00	Parts	10R8886WC	Head Gp Cyl - Worn C
1.00	Parts	10R9756	Turbo Gp Bas
1.00	Parts	10R9756CC	Turbo Gp Bas - Core
-1.00	Parts	10R9756WC	Turbo Gp Bas - Worn
1.00	Parts	20R7247	Pump Gp-Grtr
1.00	Parts	20R7247CC	Pump Gp-Grtr - Core
-1.00	Parts	20R7247WC	Pump Gp-Grtr - Worn
1.00	Parts	10R5406	Pump Gp Wtr
1.00	Parts	10R5406CC	Pump Gp Wtr - Core C

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1.00	Parts	6V3250	Seal O Ring
1.00	Parts	6V6609	Seal
1.00	Parts	6V5063	Seal O Ring
1.00	Parts	3849992	Seal-O-Ring
1.00	Parts	1470182	Seal-O-Ring
-1.00	Parts	10R5406WC	Pump Gp Wtr - Worn C
2.00	Parts	2359651	Bolt-Socket
1.00	Parts	9N6377	Boot
1.00	Parts	8N1663	Boot
2.00	Parts	2Y5741	Cover
1.00	Parts	9N6379	Boot
1.00	Parts	5P0598	Clamp
	Labor		Labor
1.00	Misc	OWM - LABOR	INPSECT/POLISH/GRIND CRANKSA SC00055617-002-001 SERIAL # JTF03324
1.00	Misc	SAM	SOS - Oil Sample
8.00	Misc	CD8	CAT DE OIL 10W30

SC00055617-002 Recondition - Engine

Parts	16,917.00
Labor	13,430.00
Misc	613.83
Segment Subtotal:	30,960.83

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SC00055617-003-001 Extra Parts/Labor/Misc for - Engine

Customer complaint: RECONDITION ENGINE - MOF

Repair process comments: THE FOLLOWING PARTS WERE REPLACED AS ENGINE EXTRAS

- 0R8839 OIL COOLER
- 1593537 INTAKE HEATER
- 1949462 BRACKET AS
- 2566168 PULLEY ILDER
- 2W6546 COVER
- 3732789 HARNESS AS
- 3752791 HARNESS AS
- 7E6794 ROCKER ARM
- 9L5134 ADJ. ROD
- MISC ELECTRICAL, SWITCHES & SENSORS

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
GR206966	DR13	C7IND	JTF03324	CU0122041	11,584
Quantity	Type	Part Number	Description	Unit Price	Amount
1.00	Parts	1593537	Heater As.	199.96	199.96
1.00	Parts	7E6794	Arm As Inj	63.17	63.17
1.00	Parts	9L5134	Rod	61.68	61.68
1.00	Parts	2W6546	Cover	151.22	151.22
1.00	Parts	2225893	Cover As-Sid	80.12	80.12
1.00	Parts	0R8839	Core As.	323.74	323.74
1.00	Parts	0R8839CC	Core As. - Core Char	149.80	149.80
1.00	Parts	1949462	Bracket As-F	737.42	737.42
4.00	Parts	1383252	Bolt	17.04	68.16
1.00	Parts	2951803	Adapter As-E	61.79	61.79
1.00	Parts	3732789	Harness As-W	517.97	517.97
1.00	Parts	2566168	Pulley As-Id	271.76	271.76
-1.00	Parts	0R8839WC	Core As. - Worn Core	149.80	-149.80
1.00	Parts	10R9789	Alternator G	634.81	634.81
1.00	Parts	10R9789CC	Alternator G - Core	622.35	622.35
-1.00	Parts	10R9789WC	Alternator G - Worn	622.35	-622.35
1.00	Parts	10R0395	Motor Gp Ele	590.16	590.16
1.00	Parts	10R0395CC	Motor Gp Ele - Core	578.60	578.60

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-1.00 Parts	10R0395WC	Motor Gp Ele - Worn	578.60	-578.60
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SC00055617-003-001

Extra Parts/Labor/Misc for - Engine

Parts	3,761.96
Labor	
Misc	
Segment Subtotal:	3,761.96

SC00055617-006 Apply - Promotion

NAT-MLP-5288

NAT-HYD-3410

Multiple rebuild credits issued per Dan McCabe

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
GR206966	DR13	C7IND	JTF03324	CU0122041	11,584

Quantity	Type	Part Number	Description	Unit Price	Amount
-1.00	Misc	UWR	NAT-MLP-5288-18	3,904.72	-3,904.72
-1.00	Misc	UWR	NAT-HYD-3410-20	187.82	-187.82

SC00055617-006

Apply - Promotion

Parts	
Labor	
Misc	-4,092.54
Segment Subtotal:	-4,092.54

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SC00055617-007 Apply - Promotion

ENGINE RECONDITION SERVICE/LABOR DISCOUNT. (MBP)

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
GR206966	DR13	C7IND	JTF03324	CU0122041	11,584

Quantity	Type	Part Number	Description	Unit Price	Amount
-1.00	Misc	MBP	MKT BASED ADJUST	3,130.46	-3,130.46

SC00055617-007 Apply - Promotion

Parts	
Labor	
Misc	-3,130.46
Segment Subtotal:	-3,130.46

Maintenance History (All work types) - DO0013 - All History

Date Completed	Work Order ID	Description	Hour Reading	Status
05/24/2024	94026	Gather all the spare parts from upstairs, cold storage and the dredging diving bay, go through, take pictures and put into a pallet box to get rid ofDave remo	13576 on 5/24/2024 8:12:55 AM	Closed
05/03/2024	94297	Dan - Remove Veit logo	13576 on 5/3/2024 10:57:38 AM	Closed
11/07/2023	86302	Engine sound like it has a miss ----- Ty Held added [10/10/2023 06:09 AM] -----Run cylinder cut out test all cylinders with in spec. Cut out one cylinder at	13576 on 11/7/2023 6:11:37 AM	Closed
09/15/2023	73242	PM 4 - 2000 Hour Service-----PM 3 - 1000 Hour Service-----PM 2 - 500 Hour Service-----	13576 on 9/15/2023 7:02:43 AM	Closed
08/17/2023	84143	Smoked electrical components in the rear electrical compartment, look at and see some of the contractors got very hot and melted the plastic between the ir	13576 on 8/17/2023 8:45:09 AM	Closed
05/10/2022	67156	Pick up door handle replaced broken one	13333 on 5/10/2022 7:48:40 AM	Closed
05/10/2022	66914	PM 1 - 250 Hour Service	13333 on 5/10/2022 7:40:00 AM	Closed
11/29/2021	60351	Remove spud kicker cylinder from DR-12 Take apart, go to central and get seal, reseal cylinder Load up supplies and travel to Washburn ND to install cylinderChange out thermostats because they s		Closed
10/13/2021	55402	From backlog:Engine runs hot under load. Casey reported this after the dredge was removed from the water so we could not duplicate the complaint. Using 2 gallon of coolant in 12 hour shift. ----		Closed
10/08/2021	60215	Running great ----- Jason Jendro added [10/07/2021 06:50 PM] -----Went back		Closed
10/08/2021	60213	Check out ----- Jason Jendro added [10/07/2021 06:40 PM] -----Went there working well went to shop pick up 100 gallon fuel tank bring up there AC didn't work charged works well		Closed
10/08/2021	60212	Check on ----- Jason Jendro added [10/07/2021 06:34 PM] -----Working with them put cables on spuds		Closed
10/05/2021	60049	Install a new vacuumed sensorCover to seal up the vacuumed sensor is to smallFabricate a new cover, paint and install it		Closed
09/23/2021	57275	Fixing wore down flange and fixing cracksDB. 7/19/21. Ty and I tore apart water pump and remove propeller to then install new packing etc.		Closed
09/16/2021	59315	Removed busted off bolts for hydraulic hose tie down		Closed
09/08/2021	55474	Removed engine to send to Ziegler for rebuild.----- Blake Klinkner added [05/28/2021 06:23 AM] -----Removed engine to send to Ziegler for rebuild.		Closed
06/28/2021	55382	Engine using coolant and a lot of oil coming from breather have to run breather hose into a five gallon pail. Pull engine and send to Ziegler	13113 on 8/3/2020 10:28:01 AM	Closed
09/17/2020	46985	Reseal the ladder lift cylinder		Closed
08/03/2020	44799	Bring hyd. Cylinder seals to luke ----- Luke Kedrowski added [07/20/2020 08:57 AM] -----Go replace ladder lift cylinder with the one off of DR-12Reseal original cylinderGo Reinstall original ladder		Closed
08/03/2020	45510	New radiator cap seems to use coolant	13113 on 8/3/2020 10:28:01 AM	Closed
07/30/2020	45403	Not running good ----- Jason Jendro added [07/30/2020 01:49 PM] -----Put new turbo on Water pump replaced	13113 on 7/30/2020 1:47:57 PM	Closed
07/30/2020	45402	Not running good ----- Jason Jendro added [07/30/2020 01:45 PM] -----Turbo bad	13113 on 7/30/2020 1:45:04 PM	Closed
07/13/2020	44699	Antifreeze leak	13000 on 7/13/2020 7:37:25 AM	Closed
07/08/2020	44668	Finish up ----- Jason Jendro added [07/08/2020 09:59 AM] -----Replaced two thermostats coolant was low Replaced 2 inch valve on rear with other fittin	12992 on 7/8/2020 9:52:54 AM	Closed
07/08/2020	44538	Bad valves Wash Over heating ----- Jason Jendro added [07/08/2020 09:28 AM] -----Welded new parts on for valves Did PM 1Washed radiator was full o	12991 on 7/8/2020 9:24:07 AM	Closed
06/08/2020	43371	Get running help with GPS ----- Jason Jendro added [06/08/2020 10:18 AM] -----Change fuel filters	12864 on 6/8/2020 9:53:52 AM	Closed
05/12/2020	42514	Check out get running PM-1 12864 hours ----- Jason Jendro added [05/15/2020 10:14 AM] -----Wash engine tighten fan belts	12864 on 5/12/2020 11:30:34 AM	Closed
01/12/2020	38015	PM 1 - 250 Hour Service-----	12803 on 1/12/2020 8:15:21 PM	Closed
08/27/2018	20996	Make new wiring harness for the swing sensor		Closed
08/20/2018	20710	AC doesn't work changed working good		Closed
08/20/2018	20701	Changed service water pump service and washed		Closed
06/18/2018	18298	Install power converter work on service water pump will not work		Closed
06/18/2018	18292	Put sender make brackets for it made cord seems to work well service water pump not working will not prime		Closed
06/12/2018	18176	Linkage came off sender		Closed
06/11/2018	17440	Got dredge in shop made new ladder swing sensor linkages and mounting plates, pulled radiator, installed new radiator, replaced monitor in cab, no hydraulics found bad wiring, charged ac New el		Closed
06/04/2018	17471	Bring in, look over, radiator leak, install new radiator, convert swing sensor over to one where sensor is stationary, have welders replace cutter head teeth, install our exchange monitor cause this o		Closed
05/25/2018	17559	Fix cracks in frame and fix hand rail pole		Closed
05/25/2018	17420	Torch off and replace edges on auger	12428 on 10/27/2017 12:00:00 AM	Closed
05/21/2018	17388	Pm2 12532 hr		Closed
12/29/2017	12300	Oil psi dropping, drive to and from Hibbing, put a live gauge on and compare with the dash reading, they where accurate, noticed there was 804 hours on the oil, change oil and filter and run again		Closed
12/28/2017	12160	Oil pressure dropping, drive to and from Hibbing, verify oil psi with a mechanical gauge and notice there is 804 hour on the oil, psi is accurate from live gauge to the monitor so I changed the oil an		Closed
11/09/2017	8861	Engine oil leak, blow by filter housing leaking took it apart and sealed it with rtv Replace blow by filter kit Repair gps wiring for the swing sensor		Closed
10/16/2017	9321	12,147 hours Troubleshoot gps swing sensor, find bad wire in harness and repair it Engine running rough under load, troubleshoot injector cutout test, #3 injector questionable, install (Closed
09/18/2017	8562	Get GPS working, re install inclinometer, wiring and all components		Closed
09/18/2017	8614	change the fuel pm-1get started	11635 on 7/30/2016 12:00:00 AM	Closed

DR0013 Mechanic Notes from Old System

7/11/16 Hrs. 11,525 Install No.1 cylinder injector. Mike

5/16/16 hrs. 11,512 Mike Peters - Engine rebuild (Ziegler) replaced both hyddraulic pumps, rebuilt service water pump and discharge pump. Installed tattle tail line, replaced GPS wiring (made spare harness) rebuilt RH spud winch, installed roof mount AC unit, replaced blower motor.

6/4/15 Hrs.10139 Ziegler (Atlantic) Replaced #6 injector

8/21/14 Hrs.8721 Ziegler (Atlantic) New Cat reman fuel injection pump