

Minneapolis MN 55420-4236



**MINNESOTA** IOWA MISSOURI WISCONSIN

952-888-4121 800-352-2812 515-957-3800 800-342-7002 515-957-3800 800-342-7002 515-957-3800 800-342-7002

Page:

Sold To: NEW COOPERATIVE - PIERSON

ATTN A/P 93090 PO BOX 818

FORT DODGE IA

50501-0818

Invoice Number: SW540105069

1/27/18

Account No.:

Date:

0081250

Ship To:

Invoice Information

WO Number: WO Date:

WS84404

12/07/17

Store: Payment Terms: SIOUX CITY

P/Ó Number:

CHARGE 105/908

Ship Via: Invoice Type:

1A1A1A

Make:

AG-CHEM

Model: Serial:

8103 83011798

PIN:

ld No:

Cust Unit:

908

Meter:

4869.0

Invoice Summary

Parts: Labor: 575.98 5,738.05

Misc: Taxes: 3,023.69

582.18

Amount Due:

\$9,919.90

Invoice Total:

9,919.90

DUE BY 10TH OF THE NEXT MONTH

A service charge of 1 1/2 % per month will be assessed on all past due accounts,

To ensure proper credit, please detach this portion, at the perforation, and return with remittance.

NEW COOPERATIVE - PIERSON ATTN A/P 93090 PO\_BOX 818

FORT DODGE IA

50501-0818

Account Number: 0081250 Invoice Number: SW540105069 Invoice Date: 1/27/18

Approved By dutesch Please remit to: 1/31/2018 ZIEGLER INC. SDS 12-0436 POBOX86 MINNEAPOLIS, MN 55486-0436

Amount Due;

\$9,919.90

Amount Enclosed:



RESULTANT DAMAGE:



MINNESOTA IOWA MISSOURI WISCONSIN 952-888-4121 800-352-2812 515-957-3800 800-342-7002 515-957-3800 800-342-7002 515-957-3800 800-342-7002

Invoice Number: SW540105069 Date: 1/27/18 Account No.: 0081250 Page: N/R Description Unit Price REPAIR HOOD SUPPORT CUSTOMER COMPLAINT: REPAIRED HOOD SUPPORT PIERSON, IA (WOODBURY CO.) CAUSE OF FAILURE: HOOD SUPPORT SHOCKS WEAK/FLAT RESULTANT DAMAGE: NONE
REPAIR PROCESS COMMENTS:
DURING REPAIR OF ENGINE, NOTICED HOOD SHOCKS WERE
VERY WEAK/FLAT AND WOULD NOT HOLD THE HOOD UP
ANYMORE. ORDERED NEW HOOD SUPPORT SHOCKS AND
REMOVED CLIPS FROM EXISTING SHOCKS, REMOVED
SHOCKS. SHOCKS WERE CORRODED ONTO BALL MOUNTS.
CLEANED BALL MOUNTS AND INSTALLED NEW SHOCKS.
ALIGNED NOSE PORTION OF HOOD TO FRAME AND APPLIED
ANTI-SEIZE TO NOSE MOUNTING BOLTS. INSTALLED
MOUNTING BOLTS AND CLOSED HOOD AND TIGHTENED WING
NUT. HOOD HELD IN UPRIGHT POSITION PROPERLY.
REPAIR HOOD SUPPORT COMPLETE. NONE REPAIR HOOD SUPPORT COMPLETE. 2 AG517207 SPRIN SPRING/GAS 12 PSI S5 50.30 100.60 TOTAL PARTS SEG. 01 100.60 \* TOTAL LABOR SEG. 01 89,25 \* SEGMENT 01 TOTAL 189,85 T REPAIR BRACKET CUSTOMER COMPLAINT: REPAIR BRACKET (AIR CLEANER STACK) CAUSE OF FAILURE: STRAP NOT UNINSTALLED FROM STACK BEFORE CAB BEING LIFTED FOR ENGINE HEAD REMOVAL RESULTANT DAMAGE: REPAIR PROCESS COMMENTS:
DURING ENGINE HEAD REMOVAL (SEG. #20), CAB HAD TO BE LIFTED. THE CLAMP SECURING THE AIR CLEANER STACK TO THE BRACKET/STRAP ON THE SIDE OF THE CAB WAS NOT LOOSENED. WHEN THE CAB WAS RAISED, THE STRAP THEN GOT BENT/TWISTED. STRAP NEEDED TO BE REMOVED, STRAIGHTENED, AND REINSTALLED ONTO MACHINE. LOOSENED AND REMOVED CLAMP. REMOVED STRAP MOUNTING BOLTS/NUTS AND PUT STRAP IN VISE AND BENT BACK STRAIGHT. INSTALLED STRAP AND MOUNTING BOLTS AND TIGHTENED BOLTS/NUTS. INSTALLED CLAMP AROUND AIR CLEANER STACK AND ONTO BRACKET, TIGHTENED CLAMP. REPAIR BRACKET/STRAP COMPLETE. REPAIR PROCESS COMMENTS: COMPLETE. TOTAL LABOR SEG. 02 89.25 \* SEGMENT 02 TOTAL REPAIR AIR CONDITIONER LINES
CUSTOMER COMPLAINT:
REPAIR AIR CONDITIONER LINES
CAUSE OF FAILURE:
A/C HOSE RUBBING ON ENGINE BRACKET



ZIEGLER RENTAL RENTAL

MINNESOTA IOWA MISSOURI WISCONSIN 952-888-4121 800-352-2812 515-957-3800 800-342-7002 515-957-3800 800-342-7002 515-957-3800 800-342-7002

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 Invoice
 Number:
 SW540105069
 Date:
 1/27/18
 Account No.:
 0081250
 Page:

 Quantity
 Item
 N/R
 Description
 Unit Price
 Extended

Quantity	Item	[N/R]	Description	-		Unit Price	Extended
יא מים מי	DDACTIC COM	MENTC.					- <del></del>
	R PROCESS COMM ED DURING REPA	MENTS: AIR ENGINE SEG	MENT (SEC. 1	#20).			
THERE	WAS AN A/C L	INE HAD RUBB	ED THROUGH				
	ET ON TOP OF T		HE HOSES CLA				
		EW HOSE WAS NE THE RECEIVER/					
		BOTTOM RIGHT R					
		FROM RECEIVER					
BROKEN	JOUNTING CLAMI	P FOR THE RECE W CLAMP AND AL	TARK/DRARK A SO OBDEBED	MAS			
RECEIV	JER/DRYER DUE	TO SYSTEM BEI	NG OPENED. (				
		TH OF HOSE TO					
		OVED RIGHT SID VED NODE MOUNT					
REMOVE	ED HOSE GUARD	FROM HOSES AN	D REMOVED HO	OSE			
		NNECTED EXISTI					
		PULLED HOSE T BAD HOSE AND D					
HOSE U	JP TO RECEIVE	R/DRYER IN NOS	E OF MACHINI	В.			
MOUNTE	ID NEW RECEIV	ER/DRYER WITH	NEW CLAMP AL	ND			
		M OLD RECEIVER OVE PROTECTIVE					
SWITCH	H WIRING AND	INSTALLED WIRI	NG ONTO NEW				
		ECEIVER/DRYER.					
		STALLED NEW O- ONNECTED HOSE					
AND T	IGHTENED. INS	TALLED NEW O-R	ING ONTO OT	HER			
		NSTALLED UNDER		e woon			
		LIED ZIP-TIES ALLED HOSE GUA					
THAT	SIT ABOVE TO	OL BOX. INSTAL	LED NODE MOI	UNTING			
		MOUNTS AND IN C LINES THAT H					
		ENGINE COMPON		OAED			
INSTAI	LLED NEW O-RI	NGS ONTO EACH	HOSE BEFORE	_			
		URE ALL A/C CO IGHT. PUT SYST					
		ES. NO SIGNS O					
FILLEI	D SYSTEM WITH	NEW F108 (4 L	BS.) AND AFT	TER			
ENGINE	S REPAIR WAS	COMPLETE AND A HINE AND TESTE	LL COMPONENT	rs Ltmv			
OF A/C		NG PROPERLY AN					
	F VENTS AND P	RESSURES WERE	WITHIN OPERA	ATING			
		CHINE. REMOVED ONTO A/C LINE					
		NES COMPLETE.	TOMID: KEI				
	-0806	TIE	S!			.29	_5.80
	236819 518525	RING	-A/C-6X165N S			78.80 1.14	78.80 5.70
	518526	RING	S	5		.67	3.35
1, 593	3052D2	AC RECEI	V. DRIER S	5		60.30	60.30
		TOTAL	PARTS	SEG.	03	•	153.95
		<b>ጥ</b> ው ጥ <b>አ</b> ፕ	LABOR	SEG.	0.3		297,50
64.00			FREON (OZ)	Jug,	J J		23.68
		TOTAL	MISC CHGS	SEG.	03		23.68
		SEGM	ENT 03 TOTA	Ļ			475.13
REPAIR	ELECTRIC SYS	TEM			<b></b>		





MINNESOTA AWOI MISSOURI WISCONSIN

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Invoice Number: SW540105069

Date: N/R 1/27/18

Account No.:

0081250 Unit Price

Page: Extended

CAUSE OF FAILURE: HAD TO REMOVE NOSE PORTION OF HOOD GROUND WIRE SPLICED FOR FRONT WORK LIGHTS PREVIOUSLY; WIRE NEEDED TO BE CUT TO REMOVE NOSE RESULTANT DAMAGE: NONE

NONE
REPAIR PROCESS COMMENTS:
FRONT NOSE PORTION OF HOOD WHICH CONTAINED THE
HEADLIGHTS/WORK LIGHTS HAD TO BE REMOVED DURING
REPAIR ENGINE SEGMENT (SEG. #20). HEADLIGHT/WORK
LIGHT HARNESS HAD A GROUND WIRE THAT HAD TO BE
REPAIRED PREVIOUSLY. WIRE WAS REPAIRED WITH A
BUTT CONNECTOR. WIRE HAD TO BE CUT TO REMOVE THE
NOSE OF THE HOOD. ONCE NOSE PORTION WAS INSTALLED
ONTO FRONT OF MACHINE AFTER ENGINE REPAIR,
HARNESS WAS RECONNECTED. GROUND WIRE NEEDED TO BE ONTO FRONT OF MACHINE AFTER ENGINE REPAIR, HARNESS WAS RECONNECTED. GROUND WIRE NEEDED TO BE REPAIRED. WIRE WAS NOT LONG ENOUGH IN CURRENT STATE DUE TO PAST REPAIRS. CUT A PIECE OF WIRE TO ADD INTO HARNESS. CRIMPED ON TWO HEAT SHRINK BUTT CONNECTORS TO PIECE OF WIRE AND BOTH ENDS OF HARNESS ON MACHINE. APPLIED HEAT TO SHRINK TUBE TO SEAL WIRE CONNECTIONS AND LOWERED HOOD. WENT TO CAB AND TESTED FRONT HEADLIGHTS/WORK LIGHTS, LIGHTS WORKING PROPERLY. REPAIR ELECTRIC SYSTEM COMPLETE. COMPLETE.

TOTAL LABOR

59.50 \*

SEGMENT 04 TOTAL

59.50 T

REPAIR ENGINE CUSTOMER COMPLAINT: REPAIR ENGINE
CAUSE OF FAILURE:
TURBOCHARGER INTERNAL FAILURE RESULTANT DAMAGE: NONE
REPAIR PROCESS COMMENTS:
FIELD TECHNICIAN 4988 COMPLETED MOST OF ENGINE
REPAIR AND WAS UNABLE TO FINISH REPAIR. ENGINE
HEAD HAD ALREADY BEEN REINSTALLED. MOUNTED THE
A/C COMPRESSOR AND HEAT SHIELD AND TIGHTENED
MOUNTING BOLTS/NUTS. INSTALLED ALTERNATOR AND
CONNECTED POWER AND GROUND CABLES TO ALTERNATOR
AND TIGHTENED NUTS. INSTALLED BELT PULLEY ON
FRONT OF ENGINE, PULLEY PREVIOUSLY REMOVED FOR
REMOVAL OF HEAD. INSTALLED FAN BELT AND ALIGNED
BELT AND APPLIED TENSIONER TO BELT. INSTALLED AIR
TUBING/HOSES FROM AIR-TO-AIR COOLER TO AIR INLET
MANIFOLD AND FROM TURBO TO AIR CLEANER, ADJUSTED
TUBING FOR PROPER ALIGNMENT AND TIGHTENED ALL
CLAMPS. TIGHTENED BONNET ON TURBO ONCE PROPERLY
ALIGNED WITH INLET TUBING. INSTALLED UPPER
RADIATOR HOSE AND TIGHTENED CLAMPS. REMOVED AIR
COMPRESSOR HOSE, EXISTING HOSE WAS VERY HARD AND
BRITTLE. CUSTOMER REQUESTED THAT HOSE BE
REPLACED. REMOVED CLAMP FROM HOSE ON AIR
COMPRESSOR FITTING, REMOVED HOSE. CUT NEW HOSE TO
SAME LENGTH AS EXISTING HOSE, INSTALLED NEW HOSE
AND INSTALLED HOSE ONTO PIPE COMING FROM AIR
CLEANER, BY TURBO. TIGHTENED HOSE CLAMPS AND
CHECKED ENGINE OIL LEVEL, OIL FULL. FILLED
RADIATOR WITH NEW COOLANT AND APPLIED ZIP-TIES TO
HOSES AND WIRING TO SECURE. WENT TO CAB AND NONE REPAIR PROCESS COMMENTS:



Date:

1/27/18

901 West 94th Street Minneapolis MN 55420-4236

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ZIEGLER RENTAL CA Rental

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0081250

N/R Unit Price Description Extended CRANKED ON STARTER TO BLEED AIR FROM FUEL
INJECTORS AND LINES. TIGHTENED FITTINGS ON
INJECTORS ONCE LINES WERE BLED AND MADE SURE ALL
COMPONENTS WERE TIGHT AND INSTALLED CORRECTLY.
STARTED ENGINE WHILE WATCHING FOR OIL PRESSURE.
OIL PRESSURE GOOD AND ENGINE RUNNING PROPERLY.
CHECKED FOR LEAKS, NO LEAKS PRESENT. SHUT OFF
ENGINE. CHECKED FLUID LEVELS AND TOPPED OFF.
CLEANED ENGINE OF OIL AND COOLANT RESIDUE FROM
DISASSEMBLY AND ASSEMBLY AND STARTED ENGINE AGAIN DISASSEMBLY AND ASSEMBLY AND STARTED ENGINE AGAIN
AND LET RUN FOR ABOUT 30 MINUTES. EVERYTHING
LOOKED GOOD EXCEPT FOR NOTICED THAT COOLANT
TEMPERATURE WAS NOT RISING ON THE DASH BAR GAUGE. REMOVED ALL TOOLS AND PARTS FROM MACHINE AND TOOK MACHINE OUT AND DROVE FOR ABOUT 5 MILES. COOLANT TEMPERATURE NEVER ROSE. GOT OUT AND CHECKED WIRING ON NEW COOLANT TEMPERATURE SENDER THAT HAD WIRING ON NEW COOLANT TEMPERATURE SENDER THAT HAD BEEN INSTALLED. SWITCHED WIRING FROM EACH SPADE. WENT TO CAB AND CHECKED COOLANT TEMPERATURE. COOLANT TEMPERATURE NOW READING AROUND 180 DEGREES, DROVE MACHINE BACK TO SHOP TO INSTALL HOOD AND FINISH UP MACHINE. INSTALLED HOOD AND APPLIED ANTI-SEIZE TO HOOD MOUNTING BOLTS. INSTALLED BOLTS AND TIGHTENED. DID FINAL CHECK OF ENGINE AND COMPONENTS FOR LEAKS AND NO LEAKS WERE PRESENT. FLUID LEVELS GOOD, ADVISED CUSTOMER TO CHECK FLUID LEVELS IN MORNING BEFORE BUNNING DIT CHECK FLUID LEVELS IN MORNING BEFORE RUNNING, PUT TOOLS AWAY AND RETURNED PARTS. REPAIR ENGINE COMPLETE. CUSTOMER COMPLAINT: MACHINE IS LOCATED INSIDE CITY LIMITS OF PIERSON IOWA - - - WOODBURY COUNTY CAUSE OF FAILURE: THE TURBO BLEW UP CAUSING METAL TO GET INTO THE INTAKE SYSTEM INTAKE SYSTEM
REPAIR PROCESS COMMENTS:
DRAINED THE COOLANT AND REMOVED THE EXHAUST
MANIFOLD AND THE INTAKE MANIFOLD. REMOVED THE
INJECTORS AND LINES. REMOVED THE VALVE COVER AND
REMOVED ALL OF THE HEAD BOLTS. REMOVED THE
CYLINDER HEAD AND HAD IT SENT OFF TO HAVE IT
PLANED AND PRESSURE CHECKED. REMOVED AND CHECK
ALL VALVES FOR DAMAGE. REMOVED THE SHROUD AND
COOLING PACKAGE. FLUSHED THE AIR TO AIR COOLER
BACK AND FORTH SEVERAL TIMES TO GET ALL THE
PIECES OF METAL OUT OF IT. REMOVED THE FLOOR MAT
AND THE FOUR CAB MOUNT BOLTS AT THE FRONT OF THE
CAB AND LIFTED THE FRONT OF THE CAB TO HAVE CAB AND LIFTED THE FRONT OF THE CAB TO HAVE ENOUGH ROOM TO REINSTALLED HEAD AND PUSH RODS. WHEN THE HEAD RETURNED, SET BACK IN PLACE. CLEANED UP THE TOP OF THE BLOCK AND ALL CYLINDERS. REINSTALLED THE CYLINDER HEAD AND TORQUED ALL THE HEAD BOLTS AND ADJUSTED THE VALVES. REINSTALLED THE INJECTORS AND LINES AND

1.1	OM AD.			
4	AG510939	HOSE/HYD .37 BULK S5	3,83	15.32
-	AG511528	HOSE/1. 2BRD EPDM S5	1,60	14.40
_	AG514637	HOSE/ENGINE COOLANNS	24.80	49.60
	AG516516	HOSE/2.5 N5	34.90	104.70
1	AG520216	SENDER/TEMPERATUREN5	111.00	111.00

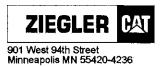
INSTALLED NEW THERMOSTATS AND BOLTED THE THERMOSTAT HOUSING IN PLACE. REINSTALLED THE FAN, BELTS, INTAKE AND EXHAUST MANIFOLD AND THE NEW TURBO. REINSTALLED THE COOLING PACKAGE. LITHE CAB BACK DOWN AND REINSTALLED THE FRONT CAB



ZIEGLER RENTAL PRENTAL

MINNESOTA IOWA MISSOURI WISCONSIN 952-888-4121 800-352-2812 515-957-3800 800-342-7002 515-957-3800 800-342-7002 515-957-3800 800-342-7002

ice Number;	SW540105069	Date:	1/27/18	Account No.:	0081250	Page:
Quantity	ltem	N/R	Description		Unit Price	Extended
1 AG5610 2 AG5610 4 AG5610 4 AG5610 1 AG7040 5 301040	213 232 234 540	CLAMP CLAMP CLAMP CLAMP CLAMP O-RIN	/HOSE 0.47-0.85 /0.81-1.50 HOSE /1.56-2.50 HOSE /2.06-3.00 HOSE /BRACKET DRIENS	5	1.15 .68 .67 1.03 12.10	1.15 1.36 2.68 4.12 12.10 5.00
			TAL PARTS			321.43
				F/R LE	IR.	
4.00 1.00 1.00 1.00 6.00 6.00 6.00 1.00 2.00 1.00 1.00 1.00 1.00 1.00 1		GA WAA GAU REO CO - WAD TH YEA GAA GAA CO	REW SKET SHER SKET RBOCHARGER REM BUILT NOTZZLE RE CHARGE RE RETURN RING SHER APTER FITTING ERMOSTAT LLOW SPRAY PAI SKET S PARTS FREIGH AL SKET SKET SKET RE FOR TURBO LLOW SPRAY PAI			6.52 8.444 8.0682 24.682 75.896626882 157039.9626882 149.27259644 149.27253464 149.27253464 149.27253464 169.27253464 169.27253464 169.27253464
		TO	TAL MISC CHGS	SEG. 20		2638.09
		S	EGMENT 20 TOTAL	<b>L</b>		7124.52
REPAIR PI CLEANED A NO CRACKS CLEANED S FOR 1 HO	S FOUND, CLE INJ BORES, P	ITS: CYL HEA CANED ALL PRESSURE COD. DEB	D. MAGNAFLUXED GASKET SURFACI TESTED HEAD 40 URRED AND FINAI TAL LABOR	ES. PSI L		270.00
		s	EGMENT 21 TOTAL	Ĺ		270,00
				_		2,0,00
TRAVEL TO	FROM MACHINE	E.				
TRAVEL TO	FROM MACHINE		AVEL MILEAGE	F/R LI	3R	767.55 68.00
	FROM MACHINE	ТR	AVEL MILEAGE TAL MISC CHGS	·	3R	
	FROM MACHINI	TR TO		SEG. 99		68.00 68.00 835.55
	FROM MACHINE	TR TO S	TAL MISC CHGS	SEG. 99	3R	68.00 68.00 835.55





**MINNESOTA** IOWA MISSOURI WISCONSIN

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Invoice Number: SW540105069 Date: 1/27/18 Account No.: 0081250 Page: 7 Quantity Item N/R Description Unit Price Extended IOWA SALES TAX - 6% 521.62 T IA LO LABOR WOODBURY 60.56 T DUE BY 10TH OF THE NEXT MONTH INVOICE TOTAL 9,919.90