

Canada West Harvest Centre

204 12th Avenue West
Kindersley, SK S0L 1S0 CA

Phone: (306) 463-2300 Fax:
Email: info@cawhc.com
Web site: cawhc.com

Bill To:



CA

SERVICE COMMITTED

Document: 05-110059
Date: 10/7/2022

PO:

Custid: [REDACTED]

Cust Email:

Phone:

Salesperson:

User:

PapeD

PapeD

Ship To:



12.3.22.

Opened: 10/7/2022
Work Order No: 05-110059
Pickup Date:
Unit No: 15177
Unit Serial: 57600276
Unit Desc: Combine
Unit Meter: 0.0

Responsible Tech:
My Ref: 580R
Delivery Date:
Unit Make: Claas
Unit Model: 580R
Unit Tag:

Winter Inspection Quote

Item	Type	Description	Qty	Tax	Price	Discount	Net Price
Inspection							
	SL	Inspection Customer Shop Labour					\$2,520.00
DISCLAB	MC	Labor Discount	1.0000	Y	(\$621.00)		(\$621.00)
Remark	RE	Inspection Discount					
	SS	Shop Supplies	1.0000	Y	\$226.80		\$226.80
Segment Total:							\$2,125.80
Parts Discount							
	SL	Parts Discount Customer Shop Labour					\$0.00
PARTS DISC	MC	PARTS DISCOUNT	1.0000	Y	(\$698.50)		(\$698.50)
Remark	RE	Parts 5% Discount					
Segment Total:							(\$698.50)
Services							
		Services -Rear axle oils -Rotor gearbox oils -Air filters -Engine service -2 spd gearbox oil -Transfer gearbox oil -Transmission Oil -Final drive oils -Fuel Filters Changed the gear box oils in to rotors, changed the oil in the transmission, changed the oil in the front differentials, changed the oil in the rear hubs, changed the engine oil, changed the engine oil filters and the fuel filters. Also changed the 2 speed gear box oil.					
	SL	Customer Shop Labour					\$1,440.00

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7733140	PA	CLA - Fuel/Water Separator	1.0000	Y	\$125.31	\$125.31
0773672	PA	CLA - Primary Air Filter	1.0000	Y	\$260.52	\$260.52
0773821	PA	CLA - Secondary Air Filter	1.0000	Y	\$245.37	\$245.37
7983031	PA	CLA - ENGINE OIL FILTER	1.0000	Y	\$68.64	\$68.64
1474800	PA	CLA - AGRIMOT SDX 15W-40	1.0000	Y	\$132.66	\$132.66
1474810	PA	CLA - AGRIMOT SDX 15W-40	3.0000	Y	\$60.82	\$182.46
1474931	PA	CLA - AGRISHIFT SYN FE 75W-90	1.0000	Y	\$74.98	\$74.98
238-8648	PA	FIN - CAT ELC COOLANT	1.0000	Y	\$44.84	\$44.84
ENV100	MC	ENVIRO FILTER OVER 8"	1.0000	Y	\$1.00	\$1.00
ENVOIL	MC	OIL ENVIRO PER LITRE	20.0000	Y	\$0.05	\$1.00
ENVIROCONTAINER	MC	ENVIRO CONT PER LITER	20.0000	Y	\$0.10	\$2.00
ENVOIL	MC	OIL ENVIRO PER LITRE	15.0000	Y	\$0.05	\$0.75
ENVIROCONTAINER	MC	ENVIRO CONT PER LITER	3.0000	Y	\$0.10	\$0.30
ENVOIL	MC	OIL ENVIRO PER LITRE	5.0000	Y	\$0.05	\$0.25
ENVIROCONTAINER	MC	ENVIRO CONT PER LITER	5.0000	Y	\$0.10	\$0.50
ENVA/F	MC	ANTIFREEZE ENVIRO PER LITRE	4.0000	Y	\$0.14	\$0.56
ENVCONTA/F	MC	ANTIFREEZE CONTAINER ENVIRO PER LITRE	4.0000	Y	\$0.10	\$0.40
3632041	PA	CLA - FUEL FILTER	1.0000	Y	\$63.73	\$63.73
1810040	PA	CLA - AGRISHIFT MT 80W-90	4.0000	Y	\$42.66	\$170.64
ENVIROCONTAINER	MC	ENVIRO CONT PER LITER	20.0000		\$0.10	\$2.00
ENVOIL	MC	OIL ENVIRO PER LITRE	20.0000		\$0.05	\$1.00
	SS	Shop Supplies	1.0000	Y	\$129.60	\$129.60

Segment Total: **\$2,948.51**

Hyd motor leak

Hyd motor leak
T/S and advise

Ordered new hose clamps, old ones are worn out and aren't making a good seal.

New hose clamps were put on and the hoses are better now.

	SL	Customer Shop Labour				\$180.00
OPF21513-04-14	PA	GRG - #14 MM ORING F LT FTG	1.0000	Y	\$14.94	\$14.94
OPF21593-04-14	PA	GRG - #14 MM 90 ORING FEM LT FTG	1.0000	Y	\$23.03	\$23.03
GOLDENISO/ 28-04	PA	GRG - 1/4" GOLDENISO-28 ANTIWEAR	2.0000	Y	\$4.16	\$8.32
	SS	Shop Supplies	1.0000	Y	\$16.20	\$16.20

Segment Total: **\$242.49**

Feederhouse

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Feederhouse
-Feeder Slats
-Wood/Plastic Slats
-Front Drum Bearings
-Feederhouse Slip Clutch
-Adjust Top Sprockets

We removed the feederhouse from the combine and then I removed the feeder chain. Once the feeder chain was out I removed all the wear strips in the feederhouse and replaced them with new ones. We also replace the middle metal piece. Once everything was together I moved the top sprockets to make sure they were in line and replaced the feederhouse slip clutch. I re-installed the feeder chain and installed the feederhouse back onto the combine. Once it was back on the combine I removed multiple feeder slats and either bent them back straight or replaced them.

SL		Customer Shop Labour				\$2,160.00
5182411	PA	CLA - CONVEYOR BAR	4.0000	Y	\$27.35	\$109.40
6305700	PA	CLA - SLIDE RAIL	4.0000	Y	\$40.85	\$163.80
7659700	PA	CLA - WOOD LATH	4.0000	Y	\$65.91	\$263.84
2146300	PA	CLA - BEARING GRVD.BALL	2.0000	Y	\$36.92	\$73.84
3557562	PA	CLA - Feederhouse Slip Clutch	1.0000	Y	\$1,243.52	\$1,243.52
2353621	PA	CLA - M8 x 60 8.8 CH	4.0000	Y	\$1.66	\$6.64
2381320	PA	CLA - M8 LOCKNUT	4.0000	Y	\$0.81	\$3.24
2361700	PA	CLA - M8 HEX NUT	12.0000	Y	\$0.21	\$2.52
2393870	PA	CLA - WASHER, CONTACT	16.0000	Y	\$0.17	\$2.72
2349530	PA	CLA - M8 x 20 8.8 CH	16.0000	Y	\$0.81	\$12.96
2364420	PA	CLA - M8 x 30 8.8 CH	8.0000	Y	\$0.87	\$6.96
2361700	PA	CLA - M8 HEX NUT	16.0000	Y	\$0.21	\$3.36
2393870	PA	CLA - WASHER, CONTACT	16.0000	Y	\$0.17	\$2.72
2334860	PA	CLA - M8 x 35 8.8 CH	8.0000	Y	\$1.12	\$8.96
5182631	PA	CLA - SLIDE RAIL	8.0000	Y	\$61.64	\$493.12
2370880	PA	CLA - M8 X 20 COUNTERSUNK BOLT	16.0000	Y	\$0.68	\$10.88
1015450	PA	CLA - GIB-HEAD KEY	4.0000	Y	\$15.64	\$62.56
2159900	PA	CLA - M8 x 95 8.8 CH	16.0000	Y	\$3.92	\$62.72
2393870	PA	CLA - WASHER, CONTACT	16.0000	Y	\$0.17	\$2.72
2361700	PA	CLA - M8 HEX NUT	16.0000	Y	\$0.21	\$3.36
0030530	PA	CLA - LOCK WIRE	4.0000	Y	\$1.32	\$5.28
5185370	PA	CLA - A.WRAPP.GUARD	1.0000	Y	\$113.38	\$113.38
7659392	PA	CLA - INTERMED. BOTTOM	1.0000	Y	\$418.16	\$418.16
	SS	Shop Supplies	1.0000	Y	\$194.40	\$194.40
Segment Total:						\$5,430.86

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Adjust Concave**Adjust Concave**

Concave adjusted to spec. Front is parallel and the middle and back is within 1 mm of each other.

SL	Customer Shop Labour				\$360.00
SS	Shop Supplies	1.0000	Y	\$32.40	\$32.40
Segment Total:					\$392.40

Impeller Pulley**Impeller Pulley**

-Impeller driven pulley is starting to split
-while replacing pulley replace bearing.

I removed the belts from the front attachment drive and the large pulley. Then removed the inner race that was stuck on the shaft itself. Pulled off the old broken pulley and started working on the bearing. Once parts arrived, I put the bearings into the front attachment drive and then installed the new bearing and the new pulley onto the shaft. Once the pulley was on the shaft and the tapered rings were in the right spot, I installed the front attachment drive pulley. I first greased the shaft and pumped about half a tube of grease into the pulley. Then I mounted the pulley and made sure everything was aligned. I then pumped the other half of the grease tube into the pulley until the grease came out the front of the pulley.

	SL	Customer Shop Labour				\$900.00
3557240	PA	CLA - V-BELT PULLEY	1.0000	Y	\$889.11	\$889.11
6447001	PA	CLA - BEARING UNIT	1.0000	Y	\$700.73	\$700.73
2151341	PA	CLA - BEARING ANGLE	2.0000	Y	\$114.35	\$228.70
2392570	PA	CLA - BEARING GRVD. BALL	1.0000	Y	\$101.61	\$101.61
2151350	PA	CLA - BEARING NEEDLE	1.0000	Y	\$120.34	\$120.34
2151361	PA	CLA - INNER RING	1.0000	Y	\$71.00	\$71.00
2166050	PA	CLA - SHAFT SEAL	1.0000	Y	\$86.85	\$86.85
6673191	PA	CLA - SPACER RING	1.0000	Y	\$57.20	\$57.20
	SS	Shop Supplies	1.0000	Y	\$81.00	\$81.00
Segment Total:						\$3,236.54

Chaff Spreader**Chaff Spreader**

Removed the spreading disk and the hub, I also removed the hydraulic motor and replaced it with a new one. Connected the new motor, bolted down the spreading disk and tightened the center bolt. I also bent the right spreader back to as close to new as I could.

	SL	Customer Shop Labour				\$630.00
Sublet Lab/Mat	MC	Sublet Labour & Materials	1.0000	Y	\$700.00	\$700.00
	SS	Shop Supplies	1.0000	Y	\$56.70	\$56.70
Segment Total:						\$1,386.70

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Main Drive Cyl

Main Drive Cyl
-Engagement cylinder is leaking

Removed the main engagement hydraulic cylinder, disassembled it and changed out the o-rings and the scrapers. Put the hydraulic cylinder back together and re-installed it.

	SL	Customer Shop Labour					\$360.00
2132210	PA	CLA - PISTON SEAL	1.0000	Y	\$32.33		\$32.33
2128660	PA	CLA - O-RING	1.0000	Y	\$2.94		\$2.94
2188310	PA	CLA - DOUPLE SCRAPER	1.0000	Y	\$37.03		\$37.03
	SS	Shop Supplies	1.0000	Y	\$32.40		\$32.40
Segment Total:							\$464.70

Cleaning Drv

Cleaning Drv
-Stage 3 cleaning fan drive belt

Replaced the cleaning fan drive belt by removing the variable speed belt from the fan drive and putting the new belt on

	SL	Customer Shop Labour					\$90.00
7447850	PA	CLA - V-BELT Fan Drive Stage 3	1.0000	Y	\$57.28		\$57.28
	SS	Shop Supplies	1.0000	Y	\$8.10		\$8.10
Segment Total:							\$155.38

Clean Grain

Clean Grain Sprockets

I first removed the elevator chain and then removed the access door on the side of the elevator boot. Once in there i removed the sprocket that drives the elevator chain and replace it and the parallel key with a new key. I put the cover back on and also replaced the bearing on the outside of the cover. On the stop i removed both top bearings (the left hand side one was difficult to take off and put on). Once everything was back together i put the elevator chain back in and the splice link back together.

	SL	Customer Shop Labour					\$1,890.00
7572352	PA	CLA - SPROCKET	2.0000	Y	\$287.97		\$575.94
2163300	PA	CLA - BEARING LOCK COLLAR	1.0000	Y	\$114.61		\$114.61
9630030	PA	CLA - PARALLEL KEY	2.0000	Y	\$4.70		\$9.40
8104480	PA	CLA - BEARING LOCK COLLAR	2.0000	Y	\$44.48		\$88.96
2165580	PA	CLA - BEARING LOCK COLLAR	1.0000	Y	\$109.72		\$109.72
2365520	PA	CLA - THREADED PIN	2.0000	Y	\$0.87		\$1.74
6104471	PA	CLA - LOCK COLLAR	1.0000	Y	\$9.50		\$9.50
	SS	Shop Supplies	1.0000	Y	\$170.10		\$170.10
Segment Total:							\$2,969.97

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Returns Sprkt

Returns Sprkt- Lower sprocket

I first removed the splice link that was in the return chain then removed the actual returns elevator. I then removed the bearing which was stuck on. We removed the boot of the returns elevator and removed the sprocket. I installed the new sprocket and re-installed the boot. I installed a new bearing and re mounted the elevator back on. after that i made sure that the splice link was fine and tightened the tension of the chain up.

	SL	Customer Shop Labour				\$900.00
2163290	PA	CLA - BEARING LOCK COLLAR	1.0000	Y	\$96.84	\$96.84
6652600	PA	CLA - PARALLEL KEY	1.0000	Y	\$2.53	\$2.53
6741436	PA	CLA - SPROCKET	1.0000	Y	\$98.28	\$98.28
6104490	PA	CLA - BEARING FLANGE	1.0000	Y	\$63.58	\$63.58
7858690	PA	CLA - CONNECTING LINK	1.0000	Y	\$47.35	\$47.35
	SS	Shop Supplies	1.0000	Y	\$81.00	\$81.00
Segment Total:						\$1,289.58

Coolant

Coolant
Coolant sight glass
coolant lines

Replaced the sight glass and the hose clamps

	SL	Customer Shop Labour				\$90.00
1769530	PA	CLA - INSPECTION GLASS	1.0000	Y	\$48.08	\$48.08
1769540	PA	CLA - THRUST COLLAR	1.0000	Y	\$9.69	\$9.69
4085522	PA	CLA - HOSE CLAMP	2.0000	Y	\$4.50	\$9.00
2122540	PA	CLA - SCREW-IN FITTING	1.0000	Y	\$33.19	\$33.19
27580160	PA	CLA - HOSE	1.0000	Y	\$36.98	\$36.98
	SS	Shop Supplies	1.0000	Y	\$8.10	\$8.10
Segment Total:						\$235.04

Valve Cover

Valve Cover

Removed the valve cover and replaced the gasket. Re-installed the valve cover and torqued the bolts down to 30NM.

	SL	Customer Shop Labour				\$90.00
229-5711	PA	FIN - VALVE COVER GASKET	1.0000	Y	\$359.80	\$359.80
	SS	Shop Supplies	1.0000	Y	\$8.10	\$8.10
Segment Total:						\$457.90

T/S Covers

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		Diag Covers. Cover would not fold in had to do it by hand. suspect cylinder bypassing. troubleshoot and advise			
		Found that there was a broken link inside for the closing of the grain tank, parts are ordered. When putting it back together I found that when the link broke, it created large gashes in the bar that it connects to. So I had to remove the bar and clean it up in order for the new part to fit onto the shaft properly. Tested the covers and everything worked the way it was intended to.			
	SL	Customer Shop Labour			\$900.00
2383910	PA	CLA - PARALLEL KEY	1.0000	Y	\$3.89
					\$3.89
7934372	PA	CLA - HUB	1.0000	Y	\$267.54
					\$267.54
Frt-Parts	MC	Freight on Parts	2.0000	Y	\$25.00
					\$50.00
	SS	Shop Supplies	1.0000	Y	\$81.00
					\$81.00
Segment Total:					\$1,302.43
Cross Auger					
		Cross Auger Rear cross auger is broken.			
		First removed the chain that drives the unloading auger. Then removed the right hand side bearing and then removed the broken auger from the grain tank. I had to prop the left wing open to be able to pull the old auger out and install the new one. Once the new one was in I installed the new bearings and put the chain back together with a new splice link. I also put the left wing back in place as it was before.			
	SL	Customer Shop Labour			\$630.00
6160650	PA	CLA - BEARING FLANGE	2.0000	Y	\$79.11
					\$158.22
1015210	PA	CLA - GIB-HEAD KEY	1.0000	Y	\$10.91
					\$10.91
3513902	PA	CLA - GRAIN TANK AUGER	1.0000	Y	\$3,073.28
					\$3,073.28
	SS	Shop Supplies	1.0000	Y	\$56.70
					\$56.70
Segment Total:					\$3,929.11
Gas Strut					
		Gas Strut Gas strut for bubble up auger has failed.			
		Removed the old gas strut and replaced it with a new one.			
	SL	Customer Shop Labour			\$90.00
7953951	PA	CLA - GAS PRESS. SPRING	1.0000	Y	\$265.95
					\$265.95
	SS	Shop Supplies	1.0000	Y	\$8.10
					\$8.10
Segment Total:					\$364.05
Sieve Drive					
		Sieve Drive			
		Replaced the stage 3 sieve drive belt by removing the stage 2 belt and unbolting the sieve arm. once the old belt was removed I reinstalled the new belt and put everything back together.			

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7564661	SL	Customer Shop Labour				\$540.00
	PA	CLA - Stage 3 Sieve Pan Drive Belt	1.0000	Y	\$359.63	\$359.63
	SS	Shop Supplies	1.0000	Y	\$48.60	\$48.60
Segment Total:						\$948.23
6674521	PA	CLA - MAIN DRIVE BELT	1.0000	Y	\$671.45	\$671.45
Main Drive						
		Main Drive				
		Removed the straw chopper and unloading engagement belts from the main drive, and all other drive belts from the system to be able to reach the main drive belt. Removed the guarding that was holding in the main belt and removed the old belt. Installed the new belt and the corresponding belt coverings. I reinstalled the belts that were removed and tensioned them to spec and guarding. Tested the new belt and found everything was running true.				
	SL	Customer Shop Labour				\$1,260.00
	SS	Shop Supplies	1.0000	Y	\$113.40	\$113.40
Segment Total:						\$2,044.85
6286010	PA	CLA - BUSHING SLIDING	2.0000	Y	\$61.57	\$123.14
0085430	PA	CLA - BUSHING	6.0000	Y	\$7.03	\$42.18
6298540	PA	CLA - BUSHING SLIDING	2.0000	Y	\$66.71	\$133.42
6032710	PA	CLA - BUSHING	4.0000	Y	\$27.18	\$108.72
6033090	PA	CLA - GLIDING SHOE	6.0000	Y	\$13.35	\$80.10
1773090	PA	CLA - STRIP FELT	2.0000	Y	\$12.80	\$25.60
6298550	PA	CLA - SLIDE RAIL	2.0000	Y	\$6.43	\$12.86
2356580	PA	CLA - SPRING PIN	12.0000	Y	\$0.21	\$2.52
4086130	PA	CLA - OLIVE	2.0000	Y	\$1.44	\$2.88
2333310	PA	CLA - NUT UNION	2.0000	Y	\$1.04	\$2.08
9418370	PA	CLA - GREASE PIPE	3.0000	Y	\$11.12	\$33.36
Variable Speeds						
		Variable Speeds				
		I removed the corresponding belts to the two variable speed pulleys and hydraulic lines. I then removed the floor from the rear of the combine in order to reach the upper most pulley. I then removed the pulleys and split each of them. I replaced the bushings and other replaceable parts within the pulleys and greased them and put them back together. I then reinstalled both sets of pulleys and corresponding belts. I then greased the pulleys again and tested them. Everything ran fine, I regreased the pair of pulleys and cleaned up.				
	SL	Customer Shop Labour				\$3,960.00
	SS	Shop Supplies	1.0000	Y	\$356.40	\$356.40
Segment Total:						\$4,883.26

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		Labor:	\$18,990.00
		Parts:	\$13,969.94
		Misc Charges:	(\$559.74)
		Shop Supplies:	\$1,709.10
Totals		Sub Total:	\$34,109.30
		Total Tax:	\$1,705.42
		Estimated/Current Invoice Total:	\$35,814.72

Estimated/Current Balance Due On This Invoice: \$35,814.72

Thank you for your business.