

UNIT #	280
HOURS	1985
KMS	34879
DATE	Mar 11/16

CYPRESS COUNTY CATERPILLAR GRADER 500 HOUR SERVICE & INSPECTION

OIL & FLUID LEVELS: check levels, sample & change oil as follows:

Engine	replace 30L Duran E 10/40	sample every 250 & change every 500
Transmission & Differential	replace 60L TMS	sample every 500 & change every 2000-H & 1000-M
Hydraulic	replace 64L 0/20	sample every 500 change every 4000-H & 2000-M
Left Tandem	replace 80L TDO30	sample every 500 change every 2000
Right Tandem	" " "	sample every 500 change every 2000
Steering Axle Spindle Housings	replace TDO30 each	sample every 500 M only change every 2000
Circle Drive Housing	replace with 7590	change every 2000
Radiator	level ok	change coolant every 6 years or 12000
Windshield Washer	filled	top-up as required

FILTERS & BREATHERS: replace filters clean breathers as follows:-

Engine Oil Filter	replaced	change every service
Crankcase Breather	cleaned	clean every service
Fuel Filter	replaced	change every service
Fuel Screen	cleaned	clean every service
Fuel Tank Cap Breather	replaced	clean every 500
Water Separator / Sediment Bowl	replaced	change / clean every service
Circle Drive Housing	clean	clean every 500
Air Filter(s)	replace inner & outer	clean or replace as required
Air Dryer	N/A	change desiccant every 5000 & every 2000 on ASD models
Cab Filter(s) & A/C Filters	cleaned both	clean or replace as required
Transmission & Differential		clean screen's, replace filter & check breather every 500
Hydraulic System	replace filter & breather	replace filter, clean breather & screen every 500
Hydraulic Implement Controls	replace	(Steering/Brakes) replace filter every 500
Tandems	cleaned	check breather every 500

COOLING SYSTEM:

using refractometer & maintain at -36 to -40 deg C

Anti-freeze strength: adjust if required	anti-freeze protection good for - 70 deg C
Add extender to long-life anti-freeze every 6000 hours	due 6000
Replace Temp. regulator	due 3000 replace every 3000
Check all radiator & heater hoses	ok
Wash radiator core	washed full flow water flush every service
S.O.S. sample	sampled every 2000

ACCESSORY DRIVE BELTS: inspect belts & pulleys, adjust or replace as required

Fan/Alternator & Air Conditioning ok

EXHAUST & INTAKE SYSTEMS: inspect for leaks, secure any loose components

ok

ROLLOVER PROTECTION STRUCTURE: inspect every 1000 hours

inspected

This check list to be used in conjunction with mfg's. service literature.

UNIT #	280
HOURS	1436
KMS	24880
DATE	Oct 5/15

CYPRESS COUNTY CATERPILLAR GRADER 500 HOUR SERVICE & INSPECTION

OIL & FLUID LEVELS: check levels, sample & change oil as follows:

Engine	<i>replaced 30 liters Duron E-10W40</i>	sample every 250 & change every 500
Transmission & Differential	<i>level good - due 1943</i>	sample every 500 & change every 2000-H & 1000-M
Hydraulic	<i>level good - due 2000</i>	sample every 500 change every 4000-H & 2000-M
Left Tandem	<i>level good - due 2000</i>	sample every 500 change every 2000
Right Tandem	" " " "	sample every 500 change every 2000
Steering Axle Spindle Housings	<i>level good - due 2000</i>	sample every 500 M only change every 2000
Circle Drive Housing	<i>level good - due 2000</i>	change every 2000
Radiator	<i>level good</i>	change coolant every 6 years or 12000
Windshield Washer	<i>topped up</i>	top-up as required

FILTERS & BREATHERS: replace filters clean breathers as follows:-

Engine Oil Filter	<i>replaced</i>	change every service
Crankcase Breather	<i>cleaned</i>	clean every service
Fuel Filter	<i>replaced</i>	change every service
Fuel Screen	<i>cleaned</i>	clean every service
Fuel Tank Cap Breather	<i>replaced filter</i>	clean every 500
Water Separator / Sediment Bowl	<i>replaced</i>	change / clean every service
Circle Drive Housing	<i>cleaned</i>	clean every 500
Air Filter(s)	<i>replaced entire</i>	clean or replace as required
Air Dryer	<i>N/A</i>	change desiccant every 5000 & every 2000 on ASD models
Cab Filter(s) & A/C Filters	<i>replaced cab and cleaned A/C</i>	clean or replace as required
Transmission & Differential	<i>cleaned breather</i>	clean screen's, replace filter & check breather every 500
Hydraulic System	<i>breather filter due 2000</i>	replace filter, clean breather & screen every 500
Hydraulic Implement Controls	<i>replaced</i>	(Steering/Brakes) replace filter every 500
Tandems	<i>cleaned</i>	check breather every 500

COOLING SYSTEM:

using refractometer & maintain at -36 to -40 deg C

Anti-freeze strength: adjust if required	anti-freeze protection good for - 70 deg C
Add extender to long-life anti-freeze every 6000 hours	<i>due 6000</i>
Replace Temp. regulator	<i>due 3000</i> replace every 3000
Check all radiator & heater hoses	<i>good</i>
Wash radiator core	<i>core washed</i> full flow water flush every service
S.O.S. sample	<i>due 2000</i> every 2000

ACCESSORY DRIVE BELTS: inspect belts & pulleys, adjust or replace as required

Fan/Alternator & Air Conditioning *good*

EXHAUST & INTAKE SYSTEMS: inspect for leaks, secure any loose components

good

ROLLOVER PROTECTION STRUCTURE: inspect every 1000 hours

due next service

This check list to be used in conjunction with mfg's. service literature.

UNIT #	280
HOURS	943
KMS	16274
DATE	JUNE 17/15

CYPRESS COUNTY

CATERPILLAR GRADER

500 HOUR SERVICE & INSPECTION

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OIL & FLUID LEVELS: check levels, sample & change oil as follows:

Engine	REPLACED 30L 10W-40 DUREON 5	sample every 250 & change every 500
Transmission & Differential	REPLACED	sample every 500 & change every 2000-H & 1000-M
Hydraulic	LEVEL OK	sample every 500 change every 4000-H & 2000-M
Left Tandem	LEVEL OK	sample every 500 change every 2000
Right Tandem	LEVEL OK	sample every 500 change every 2000
Steering Axle Spindle Housings	LEVELS OK	sample every 500 M only change every 2000
Circle Drive Housing	LEVEL OK	change every 2000
Radiator	LEVEL OK	change coolant every 6 years or 12000
Windshield Washer	FILLED	top-up as required

FILTERS & BREATHERS: replace filters clean breathers as follows:-

Engine Oil Filter	REPLACED	change every service
Crankcase Breather	CLEANED	clean every service
Fuel Filter	REPLACED	change every service
Fuel Screen	CLEANED	clean every service
Fuel Tank Cap Breather	REPLACED	clean every 500
Water Separator / Sediment Bowl	REPLACED/CLEANED	change / clean every service
Circle Drive Housing	CLEANED	clean every 500
Air Filter(s)	REPLACED OUTER	clean or replace as required
Air Dryer	N/A	change desiccant every 5000 & every 2000 on ASD models
Cab Filter(s) & A/C Filters	REPLACED CAB	clean or replace as required
Transmission & Differential		clean screen's, replace filter & check breather every 500
Hydraulic System		replace filter, clean breather & screen every 500
Hydraulic Implement Controls	REPLACED	(Steering/Brakes) replace filter every 500
Tandems	CLEANED	check breather every 500

COOLING SYSTEM:

using refractometer & maintain at -36 to -40 deg C

Anti-freeze strength: adjust if required	anti-freeze protection good for - 70 deg C
Add extender to long-life anti-freeze every 6000 hours	DUE AT 6000
Replace Temp. regulator	DUE AT 3000 replace every 3000
Check all radiator & heater hoses	ALL OK
Wash radiator core	WASHED full flow water flush every service
S.O.S. sample	DUE AT 2000 every 2000

ACCESSORY DRIVE BELTS: inspect belts & pulleys, adjust or replace as required

Fan/Alternator & Air Conditioning OK

EXHAUST & INTAKE SYSTEMS: inspect for leaks, secure any loose components

OK

ROLLOVER PROTECTION STRUCTURE: inspect every 1000 hours

INSPECTED

This check list to be used in conjunction with mfg's. service literature.

UNIT #	280
HOURS	474
KMS	8376
DATE	Feb 27/15

CYPRESS COUNTY CATERPILLAR GRADER 500 HOUR SERVICE & INSPECTION

OIL & FLUID LEVELS: check levels, sample & change oil as follows:

Engine	replaced 30 liters Deere E-10W40 - sample taken	sample every 250 & change every 500
Transmission & Differential	LEVEL GOOD	sample every 500 & change every 2000-H & 1000-M
Hydraulic	LEVEL GOOD	sample every 500 change every 4000-H & 2000-M
Left Tandem	LEVEL GOOD	sample every 500 change every 2000
Right Tandem	LEVEL GOOD	sample every 500 change every 2000
Steering Axle Spindle Housings	LEVEL GOOD	sample every 500 M only change every 2000
Circle Drive Housing	LEVEL GOOD	change every 2000
Radiator	LEVEL GOOD	change coolant every 6 years or 12000
Windshield Washer	FILLED	top-up as required

FILTERS & BREATHERS: replace filters clean breathers as follows:-

Engine Oil Filter	REPLACED	change every service
Crankcase Breather	CLEANED	clean every service
Fuel Filter	REPLACED	change every service
Fuel Screen	CLEANED	clean every service
Fuel Tank Cap Breather	REPLACED	clean every 500
Water Separator / Sediment Bowl	REPLACED / CLEANED	change / clean every service
Circle Drive Housing	CLEANED	clean every 500
Air Filter(s)	REPLACED OUTER	clean or replace as required
Air Dryer	N/A	change desiccant every 5000 & every 2000 on ASD models
Cab Filter(s) & A/C Filters	REPLACED LAB	clean or replace as required
Transmission & Differential		clean screen's, replace filter & check breather every 500
Hydraulic System		replace filter, clean breather & screen every 500
Hydraulic Implement Controls	REPLACED	(Steering/Brakes) replace filter every 500
Tandems	CLEANED	check breather every 500

COOLING SYSTEM:

using refractometer & maintain at -36 to -40 deg C

Anti-freeze strength: adjust if required	anti-freeze protection good for -70 deg C
Add extender to long-life anti-freeze every 6000 hours	DUE AT 6000
Replace Temp. regulator	DUE AT 3000 replace every 3000
Check all radiator & heater hoses	ALL GOOD
Wash radiator core	WASHED full flow water flush every service
S.O.S. sample	DUE AT 2000 every 2000

ACCESSORY DRIVE BELTS: inspect belts & pulleys, adjust or replace as required

Fan/Alternator & Air Conditioning	ALL GOOD
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EXHAUST & INTAKE SYSTEMS: inspect for leaks, secure any loose components

ALL GOOD

ROLLOVER PROTECTION STRUCTURE: inspect every 1000 hours

DUE AT 1000

This check list to be used in conjunction with mfg's. service literature.



Cypress County
GRADER PRE-SERVICE

Unit #: 33021 Engine Hours: 10062 Date: 5 Jan 23

CAB	
Brakes	Comments:
Brake accumulator check	☒ 9 application
Test park brake (15° Slope)	☒
Emergency	Comments:
Fire extinguisher (check charge)	☒
First aid kit	☒
Filters	Comments:
A/C filter	☒
Cab filters	☒
Lights	Comments:
Dome & Panel lights	☒
Interior & Instrument panel lights	☒
Other	Comments:
Heater, Fan & A/C	☒
Horn & Back-up alarm	☒
Mirrors & Glass	☒
Mobile radio	☒
Rollover structure inspection (visual)	☒
Windshield washer	☒
EXTERIOR	
Battery	Comments:
Battery terminals & Hold-downs	☒
Lights	Comments:
Driving & Implement working lights	☒
Head (hi-lo) & Plow lights	☒
Signal & Hazard lights	☒
Tail & Brake lights	☒



CYPRESS COMMUNICATIONS LTD.
 #3 - 2265 10 AVENUE S.W., MEDICINE HAT, AB, T1A 8G1
 Tel.:(403) 528-2244 Fax :(403) 527-1133
 www.cypresscomm.ca
 mail@cypresscomm.ca

DATE: 09/30/2014
INVOICED TO:
 CYPRESS COUNTY Public Works
 816 - 2nd Avenue
 Dunmore, AB, T1B 0K3

INVOICE NUMBER	10306-01
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Reprint

SHIP TO:

Unit# 280 (Grader)

CUSTOMER NO: 4035262888		SALESPERSON: Ian Maben		
P.O. NO.:		TERMS: Due on Receipt		
QUANTITY	PRODUCT NO.	DESCRIPTION	UNIT PRICE	AMOUNT
8	LABOUR INSTALSHOP	Install Voice Radio & Cams System	\$90.00	\$720.00
		LABINSTSHOP		
1	KENWOOD TK-7302HK	Mobile 16 ch 50 watt 136-174 Mhz FrontSpeaker Scan B4900424	\$385.00	\$385.00
1	MOBILTR MB8	M mount Coax 003800018395	\$22.00	\$22.00
1	MISC MISCPARTS	Ant. Bracket 003000010531	\$10.00	\$10.00
1	MISC MISCPARTS	Coax Connector 003000010531	\$5.00	\$5.00
1	SPEAKER HS600	External Speaker (West Crystal) 003000008018	\$40.00	\$40.00
1	KENWOOD KMC-36	Microphone DTMF TK 7102/7160/7180 004800006263	\$105.00	\$105.00
-1	KENWOOD KMC-30	Microphone Model 7302/7360/7102 004800006441	\$30.00	(\$30.00)
1	MISC MISCPARTS	Shop Supplies 003000010531	\$10.00	\$10.00
NON-INVENTORY ITEM				
SEP 30 2014				
UNIT NO. 6-31-02-000-631-20				
OK TO PAY				

NOTE: Thank you for shopping with us. Invoice Remarks		Our GST No. 13599 4390 RT0001 Our . No. 5673488	SUB-TOTAL \$1,267.00 GST \$63.35 \$0.00
METHOD OF PAYMENT: Receivable \$1,330.35			TOTAL \$1,330.35
			PAID \$0.00 BALANCE DUE \$1,330.35

I acknowledge receipt of the above listed goods, which will remain the property of Telus Mobility Demo. until full payment of this invoice. No Return on Handset Sale. 25% Restocking Fee will be applied on unused accessories, in original packaging and an original invoice must be provided. Invoices are due upon receipt. Late Payment Charge at the rate of 2% per month (26.824% per annum) will apply to overdue accounts. A Service Charge of \$25.00 will be assessed for each NSF cheque.

Please pay to the order of:
CYPRESS COMMUNICATIONS LTD.
 #3 - 2265 10 AVENUE S.W.
 MEDICINE HAT, AB, T1A 8G1

SIGNATURE: _____ :

Company: Cypress County
System: 03/21/2024 2:13:38 PM
User Date: 03/21/2024

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User ID: Taylor

RECORD NOTES REPORT

Note ID:
5606.00000

Created/Last Modified:
03/21/2024 2:13:33 PM

U33021 SERVICE/INSPECTION

✖10063 hrs Took all oil samples, replaced 30 L of 10w-40 engine oil and filter, replaced 62 L of 0w-20 hyd oil, replaced 60 L of TMS oil in trans, replaced approx 80 L of 30w oil and 1 L of additive in each tandem, replaced oil in circle gearbox with 75w-90, replaced oil in front wheel spindles with 30w, LH window washer was not working, I found the electrical plug pulled off pump, the circle adlustments were put off as well as replacement of the steering tires because unit it up for replacement in near future, completed all remaining tasks in list.

Trans due 10952
Hyd due 11971
Frt hubs,tands 11057
Circle 9957
Mouldboard,circle 9957

Company: Cypress County
System: 03/21/2024 2:19:46 PM
User Date: 03/21/2024

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RECORD NOTES REPORT

Note ID:
6093.00000

Created/Last Modified:
03/21/2024 2:16:03 PM

U33021 REPAIR

10167 hrs The seat would not stay aired up, I removed seat and base and put on bench, I tested air bag and it was leaking, I removed air bag, had parts order a new one, I put it in base, I put base and seat back into grader, tested operation.

Company: Cypress County
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RECORD NOTES REPORT

Note ID:
6561.00000

Created/Last Modified:
03/21/2024 2:20:23 PM

U33021 REPAIR

10359hr Hooked up guages and foUnd that the system was empty of refrigerant, charged up with nitrogen and found a steel line off compressor leaking, ordered both steel lines, removed and replaced steel lines, hooked up vaccuum pump and let run for an hour, charged system back up with 1.8 kg of refrigerant.

Company: Cypress County
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RECORD NOTES REPORT

Note ID:
5277.00000

Created/Last Modified:
03/21/2024 2:21:02 PM

U33021 REPAIR

9201 hrs Operator complained that the grader was misfiring and there were inj codes. I started up engine and it ran fine. There was no engine light on or messages. I hooked up Cat ET. There was codes for a few injector about 7 hrs before but they were no active. I cleared all codes. I let grader run outside to warm up and see if codes return. No codes came back and engine ran fine. I gave unit back to PW and told them to monitor.

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RECORD NOTES REPORT

Note ID:
5291.00000

Created/Last Modified:
03/21/2024 2:21:18 PM

U33021 REPAIR

I removed valve cover, I unbolted and raised muffler out of the way. I removed and replaced the #5 and #6 injector, I replaced the electrical pigtail connector. I put valve cover back on and bolted down muffler. I programmed the new calibration numbers for the injectors, I erased codes. I topped up engine and trans oil. I took grader for a test drive. The codes came back during test drive. I looked up troubleshooting info in SIS. I did basic troubleshooting and did a wiggle test on external injector harness and could make the engine and misfire and smooth out just by wiggling the harness. I ordered a new harness. I installed the new harness. The end of the harness for the intake pressure sensor was different. I had Carmela order the updated sensor and I put it in. I erased all the codes. I test drove the grader. It ran fine and no codes came back.

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RECORD NOTES REPORT

Note ID:
5031.00000

Created/Last Modified:
03/21/2024 2:21:42 PM

U33021 SERVICE/INSPECTION

9484 hrs 165796 km Replaced 30 L of 10w-40 engine oil, replaced
leaking oring on cover on back of transmission, tightened up
leaking hose clamp on hose on coolant reservoir

Trans due 9952

Hyd due 9971

Frt hubs,tands 9957

Circle 9957

Mouldboard,circle 9957

Company: Cypress County
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RECORD NOTES REPORT

Note ID:
4268.00000

Created/Last Modified:
03/21/2024 2:22:32 PM

U33021 SERVICE/INSPECTION

8451 hrs 150207 km Replaced 30 L of Petrocanada Duron UHP
10w-40. coolant tested to -60 deg C, checked all fluid levels,
replaced engine air filter, put 2 new tires on RH tandem and
move those tires to steering axle. sent the steering tires to
Kirk's for replacement because they were so worn the cord was
showing thru. Completed all tasks in list.

Trans due 8957hr
Hyd oil due 9971hr
Frt hubs and tandems due 9957hr
Circle due 9957hr
Valve set due 8466hr
Mouldboard, circle, draftball due 9957hr

Company: Cypress County
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RECORD NOTES REPORT

Note ID:
4889.00000

Created/Last Modified:
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U33021 REPAIR

8677 hrs 153829 km The LH blade tilt hose was leaking. I removed the hose and replaced it with a new one from Finning.

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RECORD NOTES REPORT

Note ID:
4756.00000

Created/Last Modified:
03/21/2024 2:23:29 PM

U33021 SERVICE/INSPECTION

8952hr,158459km,replace 30L 10/40 engine oil and filter,replace
60L TMS oil and filter in trans,check engine air
filters-ok,replace fuel filters,checks per list

Trans due 9952

Hyd due 9971

Frt hubs,tands 9957

Circle 9957

Mouldboard,circle 9957

Company: Cypress County
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RECORD NOTES REPORT

Note ID:
3199.00000

Created/Last Modified:
03/21/2024 2:34:02 PM

U33021 SERVICE/INSPECTION

6950hr,123905km,replace 30L 10/40 engine oil and filter,replace
60L tdto TMS trans oil and filter,coolant level low-add 7L
ELC,cant find a leak-monitor issue,coolant tested at -60C,test
batteries at 1400cca frt 120% rear 114%,replace leaking V plow
lift cyl,bad oil sample in frt left strg hub-replace oil(TDFO
30),remove snow wing diverter valve and hoses-not being
used,replace snow wing safety chain with a cable-Kurts welded
on lugs,Allan will cal trans

Company: Cypress County
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RECORD NOTES REPORT

Note ID:
3774.00000

Created/Last Modified:
03/21/2024 2:34:40 PM

U33021 REPAIR

7113hr,127161km,look for coolant leak in bldg N,found hose
between thermostat housing and waterpump seeping,tighten clamps
and wash area off,top up coolant with 3L CAT ELC,notify Andrew
to keep an eye on hose

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RECORD NOTES REPORT

Note ID:
3652.00000

Created/Last Modified:
03/21/2024 2:34:56 PM

U33021 SERVICE/INSPECTION

7449hr,132770km,replace 30L 10/40 engine oil and filter,test
coolant at -60C,test bats at 1400cca frt n115% rear
108%,replace both frt tires-worn,remove rt rear tire and send
out for flat repair,reinstall rear tire and torque all wheels
to 500ftlb,circle shift pin is leaking,Ryan from Finning will
repair,wash rad,checks per list

Trans oil due 7950hr
Hyd oil due 9971hr
Frt hubs 7971hr
Circle due 7971hr
Valve set due 8466hr
Thermostat due 9015hr
Coolant sample 79071hr
Mouldboard,circle due 7971hr

Company: Cypress County
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RECORD NOTES REPORT

Note ID:
3979.00000

Created/Last Modified:
03/21/2024 2:38:41 PM

U33021 SERVICE/INSPECTION

7957hr,141279km,replace 30L 10/40 engine oil and filter,replace 75/90 oil in circle drive,replace engine air filters,test batteries at 1400cca frt-1480cca rear 1420cca,coolant tested at -60C,replace 60L TMS oil in trans,replace 80L TDTO 30 and 1L 1U-9891 additive in each tandem,replace TDTO 30 in each frt hub,replace and adjust mouldboard slides,replace circle wear strips and readjust uppers,check cyl ends-ok,check draftball play-0.020"-good,rotate left tandem tires to strg tires and strg tires to tandem,torque wheels to 500ftlb,set pres's,wash out rad,check over for any issues as unit is going off warranty-none found,adjust left door latch pin,remove frt mud flaps and fabricate new style and install ,checks per list,Allan will calibrate trans

Trans due 8957hr
Hyd oil due 9971hr
Frt hubs and tandems due 9957hr
Circle due 9957hr
Valve set due 8466hr
Mouldboard,circle,draftball due 9957hr

Company: Cypress County
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RECORD NOTES REPORT

Note ID:
2404.00000

Created/Last Modified:
03/21/2024 2:39:16 PM

U33021 SERVICE/INSPECTION

5971 hrs 105498 km Test drove unit to warm up and test park brake. Pulled into shop, drained and replaced 30 L of 10w-40 Petrocanada Duron UHP engine oil and filter. Replaced 61 L in trans with CAT TMS oil. Replaced 4 pails of CAT TDTO 30W in each tandem. Replaced hyd oil with 63 L of CAT 0w-20 oil. Replaced oil in circle drive gearbox with 75w-90. Replaced oil in front spindles with CAT TDTO 30w. Measured play in draft ball 0.010" which is within specs so did not remove any shims. Removed 1 shim out of each hyd cyl ball socket. Replaced bottom and top blade slide wear strips. The bottom right side was missing and the adjusting bolts on top were loose. I readjusted bolts after installing new wear strips. I checked and adjusted upper shim packs on circle wear strips. Front battery was replaced 1400 CCA's 120% rear battery 1400 CCA's 133%. I replaced thermostats. Coolant tested to - 70 deg C. I drained out 4 L of coolant and replaced with 4 L of distilled water. I replaced front middle wiper blade. Operator complained that scarifier creeps down. I removed lines off cylinder and capped. It did not creep down overnight. I hooked lines back up and let sit overnight and it did leak down either. I talked to Allan again and he said it takes several days to be noticeable. I installed 2 new tires on LH tandem and 1 new tire on RH tandem. One old tire on LH side was moved to RH side and the other was put on the steering. One old tire on the RH side was also put on the steering. The HEUI pump is leaking and was reported to Cody as well as a noise that sounds like it is coming from behind cab.

Added 1 bottle of Cat coolant extender to the radiator.
Washed the radiator

Trans oil due: 6971

Hyd oil due: 9971

Tandems oil due: 7971

Front hubs oil due: 7971

Circle drive oil due: 7971

Valve lash due: 6500

Thermostat due: 9015

Coolant sample due 7971

Circle, mouldboard, ball and socket, and front end inspection due: 7971

Company: Cypress County
System: 03/21/2024 2:40:28 PM
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RECORD NOTES REPORT

Note ID:
2774.00000

Created/Last Modified:
03/21/2024 2:40:25 PM

U33021 SERVICE/INSPECTION

6466 hrs 114944 km Tested park brake. Replaced 30 L of
Petrocanada Duron UHP 10w-40 engine oil and filter. Replaced RH
upper mouldboard light lense that was cracked. battery tested at
1400cca frt-122% rear 118%, coolant tested at -65C, set valves-IN
#1-0.026 EX #1-0.015

#2-0.026" #2-0.017"

#3-0.025" #3-0.016"

#4-0.027"" #4-0.016"

#5-0.027" #5-0.017"

#6-0.026"" #6-0.017"

Wash out rad, checks per list

Trans oil due 6971hr
Hyd oil due 9971hr
Frt hubs due at 7971hr
Circle oil due at 7971hr
Valves due at 8466hr
Thermostat due at 9015hr
coolant sample due at 7971
circle, mouldboard etc due at 7971hr

Company: Cypress County
System: 03/21/2024 2:40:51 PM
User Date: 03/21/2024

Page: 1
User ID: Taylor

RECORD NOTES REPORT

Note ID:
3457.00000

Created/Last Modified:
03/21/2024 2:40:48 PM

U33021 REPAIR

121738 km 6850 hrs Put two new tires onto RH tandem. Put RH rear tandem tire onto front right steering. Adjust pressures and torqued bolts to 500 ft/lbs.

Company: Cypress County
System: 03/21/2024 2:41:31 PM
User Date: 03/21/2024

Page: 1
User ID: Taylor

RECORD NOTES REPORT

Note ID:
1927.00000

Created/Last Modified:
03/21/2024 2:41:28 PM

U33021 REPAIR

85621km, service call to TWP121B, the dif lock to trans hose is leaking, return to shop and get spare hose aand 1 pail TMS oil, return to grader and FINNING is there to replace hose, he had his own hose, leave him the oil

Company: Cypress County
System: 03/21/2024 2:41:45 PM
User Date: 03/21/2024

Page: 1
User ID: Taylor

RECORD NOTES REPORT

Note ID:
1709.00000

Created/Last Modified:
03/21/2024 2:41:42 PM

U33021 SERVICE/INSPECTION

Odometer 88541 km. Engine 4985 hrs.
Replaced 30 litres Duron UHP 10W40 engine oil
Replaced 60 litres Cat TDTO TMS oil in the transmission
Rotated the tires. Left front tandem to the right steering.
The left rear tandem to the left steering. The steering tires
were removed and discarded. New tires from the stock in the
shop were put on the left tandems. Set the tire pressures as
per the usual and torqued all the wheel bolts to 500 ft.lbs.
Replaced the lens on the left side mouldboard work light
The hyd cylinder for the scarifier was leaking so replaced it
with a cylinder that had been previously overhauled at Trico
Machining that was on the shelf in the shop.
Replaced the lower circle wear strips and shimmed up the upper.
Inspected the lower wear strips on the mouldboard and shimmed
up the clearances on the upper.
Trans oil due: 5985
Hyd oil due: 5998
Tandems oil due: 5998
Front hubs oil due: 5998
Circle drive oil due: 5998
Valve lash due: 6500
Thermostat due: 6015
Coolant sample due 5998
Circle, mouldboard, ball and socket, and front end inspection
due: 5998

Company: Cypress County
System: 03/21/2024 2:42:01 PM
User Date: 03/21/2024

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User ID: Taylor

RECORD NOTES REPORT

Note ID:
2096.00000

Created/Last Modified:
03/21/2024 2:41:58 PM

U33021 SERVICE/INSPECTION

5499 hrs 97166 km Test drove unit to warm up and check park brake. Take fluid samples. Drained and replaced 30 L of Petrocanada Duron UHP 10w-40 and filter. Coolant tested to -60 deg F. Tested batteries at 1400 cca's front 91% rear 114%. Cleaned dirt out of bottom blade slide wear strips and adjusted uppers. Installed new style mudflap brackets. Reported oil leak on turbo return line and at back of transmission on cover. Cody inspected and ordered parts. There was also a leak on HEUI pump but Cody had previously repaired leak so I washed it off so it can be monitored to make sure leak is fixed. I completed all tasks in list.

Trans oil due: 5985

Hyd oil due: 5998

Tandems oil due: 5998

Front hubs oil due: 5998

Circle drive oil due: 5998

Valve lash due: 6500

Thermostat due: 6015

Coolant sample due 5998

Circle, mouldboard, ball and socket, and front end inspection due: 5998

Company: Cypress County
System: 03/21/2024 2:42:21 PM
User Date: 03/21/2024

Page: 1
User ID: Taylor

RECORD NOTES REPORT

Note ID:
1030.00000

Created/Last Modified:
03/21/2024 2:42:19 PM

U33021 SERVICE/INSPECTION

Replaced 30 litres Duron E 10W30.

Checked the batteries: 1400 cca. front 103% rear 114%.

Coolant -70C

Removed the lower mouldboard wear slides, cleaned up the area, and reinstalled the slides. Replaced the upper ones with new as the old ones were wore out. Set the clearances. Checked the lower circle wear slides and shimmed up the upper.

Trans diff oil due: 4015

Hyd. oil due 5985

Circle drive due: 3985

Tandems due 3985

Front hubs oil due: 3985

Thermostat due: 6015

Valve lash due: 4500

Coolant sample due 3985

Company: Cypress County
System: 03/21/2024 2:42:55 PM
User Date: 03/21/2024

Page: 1
User ID: Taylor

RECORD NOTES REPORT

Note ID:
1063.00000

Created/Last Modified:
03/21/2024 2:42:52 PM

U33021 SERVICE/INSPECTION

Replaced 30 litres Duron E 10W40 oil
Replaced trans oil with 61.4 litres Cat TDTO TMS
Replaced tandems with 80 litres Cat TDTO 30 each
Replaced oil in the front hubs with Cat TDTO 30
Replaced oil in the circle drive housing with 75W90 gear oil
Checked the batteries: 1400 cca. 95% right and 95% left.
Coolant -70F
Rotated the tires on the steering axle. Torqued the bolts to 500 ft.lbs.
Inspected the drafball and removed .020 thousandths of an inch in shims and leaving .080 thousandths in freeplay.
Inspected the mouldboard and replaced the lower wear strips.
Adjusted the freeplay on the upper.
Inspected the ball and socket ends on the blade lift and centre side shift cylinders. Removed 1 shim from each one.
Exercised and lubed up the centres side shift locking pin
Inspected the circle wear strips and seems fine for now.
Trans oil due 5998
Tandems oil due 6998
Hyd oil due 5985
Front hubs due 5998
Circle drive due 5998
Thermostat due 6015
Valve lash due 4500
Coolant sample due 5998
Circle, mouldboard, ball and socket inspection due 5998

Company: Cypress County
System: 03/21/2024 2:43:23 PM
User Date: 03/21/2024

Page: 1
User ID: Taylor

RECORD NOTES REPORT

Note ID:
456.00000

Created/Last Modified:
03/21/2024 2:43:17 PM

U33021 SERVICE/INSPECTION

Replaced 30 litres Duron E 30. Replaced 57 litres Cat TDTO TMS in the tran.

Tested the batteries: 1400 cca. Front- 95%. rear 114%. Coolant; -70 C.

Tran. due 4015. Tandems, hubs, and circle drive clutch housing due @ 3985.

Replaced thermostats due next @ 6015 hrs. Hyd due 5985 hrs.

Replaced both air cleaners on the engine. Please note the inside secondary filter on the intake system had dust on it.

The intake pipe itself seems clean.

Removed the blade slide cylinder pins, kopr koted them, and put them back in.

Checked the lower mouldboard wear slides and shimmed the upper circle wear slides.

Checked the seroentine belt and found it torn in two and the alternator was seized up, probably due to the operator washing the engine off.

Removed the left steer wheel assembly for tire replacement and moved the right front tandem into its place. Replaced the right front tandem with a wheel and new tire from the stock in the shop. Torqued the wheel bolts to 500 ft.lbs. and set the pressures to the proper ammount

FINNING.

CAT

Serial # PREFIX B9E
Model# & Machine Type 160M Motor Grader
Unit # or Serial # B9E01038 ENG TXD06745
Machine Notes B9E01037 ENG TXD06784
Serial Number Range B9E1-99999

Links: [Lubrication Application Guide](#) [Lubrication Spec's](#)

	Description	Qty	PART #	Items Notes
Filters & Seals	Engine Oil Filter	1	1R1808	
	Fuel Filter	1	1R0762	
	Water Separator	1	3261644	
	Seal	1	2208678	
	Hydraulic Filter	1	1G8878	
	Seal	1	1300229	
	Hydraulic Filter	1	1R1809	
	Seal	1	1300229	
	Seal	1	3165366	May Require
	Transmission Filter	1	1R1809	
	Seal	1	1300229	
	Air Filter (Prim)	1	2456375	
	Air Filter (Sec)	1	2456376	
	Cab Air	1	2112660	
	Fresh Air	1	1491912	
	<i>FUEL ADV</i>	<i>1</i>	<i>1R0749</i>	
Other Maintenance Items	Battery	2	1535700	
	Belt Serpentine 8K	1	2486195	

Machine Fluid Capacities (Approximate in Litres)

Engine Crankcase	34.1	Circle Drive Hsg	7.2
Trans & Diff Housing	70.7	Front Wheel Spindle	0.9
Hydraulic Tank	64.6		
Fuel Tank	398		
Tandem Drive Hsg Ea	80.3		
All Wheel Drive Gear Ea	7		

[Link to Machine Fluid Capacities by Machine Model Number](#)

To order please call Finning @ 1-888-FINNING (1-888-346-6464)

September 2, 2014



Service Report

Report Header Information					
Work Order	1508042	Dealer Code	N186	Manufacturer	CATERPILLAR
Employee ID	0511	Service Date	4/2/2016	Model	160M
Customer	CYPRESS COUNTY	Customer Equipment Number	280	Customer PO	
Serial Number	B9E01038				
SMU	2050 Hours	Equipment Location	DUNMORE AB		
IN Date		Promise Date		OUT Date	
Instructions					

Segment Info			
Segment No: 10			
Segment Description: 1508042-1233 AC NOT WORKING			
Job Code		Description	
Component Code		Description	
Start Date	9/6/2015	End Date	9/6/2015
Instructions			

SIMS / Part Causing Failure										
Segment No	Part Number	Part Name	Qty	SMCS	Primary	Secondary	Group Number Containing Part	Group Name	Product Inoperable?	CAT. Item
10	290-2703	TUBE AS	1	1808	C-Leaks	16 Leaks Air/Gases	231-1533	LINES GP-AIR CONDITIONER	No	Yes
Durability Indicator	No	Part Failure Comments								

Labor							
Segment No	Operation No	Employee ID	Date	Overtime Indicator	Labor Codes	Shift	Man Hours
10		0511	4/2/2016	Regular	9950		1
10		0511	4/2/2016	Regular	1233		4

Mileage						
Segment No	Operation No	Employee ID	Vehicle	Date	Charge Codes	Distance

Repair Background	
Segment No: 10	
Customer Complaint	-COMPLAINT THAT AC NOT WORKING.
Cause of Failure	-TUBE RUBBED THROUGH ON P-CLIP
Resultant Damage	-NONE
Repair Process Comments	-TRAVEL TO MACHINE TO TROUBLESHOOT NO A/C -TURN ON POWER AND A/C ON. -CLUTCH DOES NOT CUT IN. -CHECK POWER AND GOOD, CHECK SWITCHES AND FIND PRESSURE WITCH OPEN. -HOOK U GAGES AND FIND SYSTEM BASICALLY EMPTY. -RIG UP NITROGEN AND FILL SYSTEM AND FIND A LEAK ON METAL TUBE DOWN FROM COMPRESSOR AT A P-CLIP. -REMOVE SIDE PANEL. -CLEAN AREA AND REMOVE P-CLIP WHICH IS RUBBED THROUGH THE LINE,AS WELL AS SPOT WERE BOTH LINES RUBBING TOGETHER. -REMOVED HOSES OFF BOTTOM OF TUBE AND REMOVED TUBES OFF BACK OF COMPRESSOR. -INSTALLED NEW LINE, AND NEW P-CLIPS. TIE STRAP TUBES TO PREVENT FUTURE RUBBING. -HOOK UP LINES WITH NEW SEALS AT BACK OF COMPRESSOR. -CHANGE AIR DRYER WITH NEW SEALS. -FILL SYSTEM WITH NITROGEN AND CHECK FOR LEAKS, NONE ALL GOOD. -PUT A VACUUM ON SYSTEM AND THEN CHARGE SYSTEM WITH 4.6 LBS OF R-134 A. -START UP AND RUN FOR A BIT AND ALL FEELS NICE AND COOL, CAB AIR TEMP TO 45 DEGREES F. -REMOVE TOOLING AND INSTALL LOWER SIDE PANEL AND DONE. -CLEAN UP TOOLING AND TRAVEL HOME. -TAG AND SEND IN WARRANTY PARTS. -WRITE REPORT AND SEND IN TO BE CLOSED.

Customer Signature	Technician Signature
--------------------	----------------------

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(403) 526-9428 FAX

PAYER **CA-0000950**
ALBERTA ASSOCIATION OF MUNICIPAL
2510 SPARROW DRIVE
NISKU AB T9E 8N5



CUSTOMER LOCATION **CA-0033364**
AAMD&C CYPRESS COUNTY CYP100
2510 SPARROW DRIVE
NISKU AB T9E 8N5

Date 10/11/14
Invoice Number 960730020
Invoice Total
Payment Terms PARTS & SERVICES DUE DATE

Due Date 31/12/14
Currency CANADIAN DOLLAR
Customer Tax Exemption No.
Customer Reference No. WARRANTY
Order Date 28/10/14
Order Number 0062107472
Finning Contact JOSHUA SMITH
Customer Contact GREG SJOLIE 403-526-2888
Customer Commitment Date 00/00/00
Actual Completion Date 28/10/14

Make CAT
Model 160M
Serial Number B9E01038 # 280
Unit Number B9E01038
Meter Reading (28/10/14) 1.00

Line No.	Qty	Item No.	Description	U/M	Sales Price
----------	-----	----------	-------------	-----	-------------

10		160M	** MACHINE REPR FOR WARRANTY		
		160M	OFF MACHINE		

Customer Reference No. WARRANTY
COMPLAINT: WHEEL HAS BEND IN EITHER RIM OR TIRE.

CAUSE: FACTORY DEFECT, WARPED RIM.

CORRECTION:

- MEASURED FROM THE OUTER RIM TO THE CENTER MOUNTING PLATE ON THE OLD RIM TO CHECK WEAR PAGE.
- FOUND THE RIM TO BE ANYWHERE FROM 0.013" TO 0.071" DIFFERENCE.
- MEASURED THE NEW RIM IN THE SAME AREAS AND FOUND IT TO HAVE NO MORE THAN 0.010" WEAR PAGE.

GST/HST Registration Number: 101801561 RT0001

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Date 10/11/14
Invoice Number 960730020
Invoice Total
Payment Terms PARTS & SERVICES DUE DATE
Due Date 31/12/14

CUSTOMER NUMBER CA-0000950

Line No.	Qty	Item No.	Description	U/M	Sales Price
1	1.00	2901505	RIM AS	PC	
2	1.50	7000-001- -FNC-	JOURNEYMAN SHOP	EA	

Service Total

GST/HST Registration Number: 101801561 RT0001

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PAYER **CA-0000950**
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 2510 SPARROW DRIVE
 NISKU AB T9E 8N5

CUSTOMER LOCATION **CA-0033364**
 AAMD&C CYPRESS COUNTY CYP100
 2510 SPARROW DRIVE
 NISKU AB T9E 8N5

Date 08/09/15
Invoice Number 960920263
Invoice Total
Payment Terms PARTS & SERVICES DUE DATE

Due Date 31/10/15
Currency CANADIAN DOLLAR
Customer Tax Exemption No.
Customer Reference No. CA-0033364
Order Date 22/07/15
Order Number 0062129480
Finning Contact DAN VAN
Customer Contact GRAIG @ 403 504-9570
Customer Commitment Date 00/00/00
Actual Completion Date 22/07/15

Make CAT
Model 160M
Serial Number B9E01038
Unit Number 280-B9E01038
Meter Reading 1110.00
 (22/07/15)

Line No.	Qty	Item No.	Description	U/M	Sales Price
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10		160M 160M	ACD REPR IN SHOP		
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Customer Reference No. CA-0033364
 COMPLAINT: A/C NOT WORKING.

CAUSE: HARNESS HAS RUBBED ON CHASSIS FRAME CAUSING AN OPEN CIRCUIT.

CORRECTION:

JULY 23

- VERIFY THAT A/C IS NOT WORKING.
- CONNECT A/C MACHINE TO CHECK SYSTEM FOR CHARGE. (STATIC PRESSURES; LOW = 66 PSI AND HIGH = 70 PSI)
- CHECK COMPRESSOR CLUTCH FOR OPERATION, GOOD.
- CHECK FOR POWER AT COMPRESSOR, 24.65 VOLTS.
- WIGGLE, TWIST AND TUG HARNESS AND FOUND VOLTAGE IS INTERMITTENT.
- REMOVE A/C HARNESS AND CHECK FOR DAMAGE, FOUND HARNESS DAMAGED BEYOND REPAIR.
- ORDER NEW HARNESS.
- INSTALLED HARNESS #292-0964 INSTEAD OF HARNESS #358-3849

GST/HST Registration Number: 101801561 RT0001

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Date 08/09/15
 Invoice Number 960920263
 Invoice Total
 Payment Terms PARTS & SERVICES DUE DATE
 Due Date 31/10/15

CUSTOMER NUMBER CA-0000950

Line No.	Qty	Item No.	Description	U/M	Sales Price
DUE TO 48 HOUR WARRANTY. (HAD 292-0964 IN STOCK). - INSTALL NEW HARNESS AND ADD EXTRA PROTECTION TO HARNESS. - ROUTE HARNESS DIFFERENTLY THAN FACTORY TO AVOID REPEAT FAILURE. - SECURE HARNESS AS REQUIRED. - CONNECT ALL CONNECTORS AND START UNIT TO TEST OPERATION. - RUN FOR 1 HOUR AND TEST A/C OUTPUT - 4.0 DEGREES C. - BRING UNIT BACK INTO THE SHOP. JULY 24 - PERFORM FINAL CHECK ON ROUTING OF HARNESS IN ARTICULATION AREA. - INSTALL PANELS AND TORQUE HARDWARE TO 45 FT LBS. - CLEAN UP AND DONE.					

1	4.00	1772215	STRAP-DUAL C	PC	
2	1.00	2006345	MOUNT-SWIVEL	PC	
3	8.00	7K1181	STRAP CABLE	PC	
4	4.00	1783620	STRAP-DUAL C	PC	
5	4.00	9X3402	SOCKET	PC	
6	1.00	2304013	PLUG AS-CONN	PC	
7	6.00	3S2093	STRAP-CABLE	PC	
8	8.50	7320-023- -SHP-001	JOURNEYMAN SHOP	EA	
12	1.00	2920964	HARNESS AS.	PC	

Service Total

GST/HST Registration Number: 101801561 RT0001

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PAYER CA-0000950
ALBERTA ASSOCIATION OF MUNICIPAL
2510 SPARROW DRIVE
NISKU AB T9E 8N5



CUSTOMER LOCATION CA-0033364
AAMD&C CYPRESS COUNTY CYP100
2510 SPARROW DRIVE
NISKU AB T9E 8N5

Date 08/09/15
Invoice Number 960920236
Invoice Total
Payment Terms PARTS & SERVICES DUE DATE

Due Date 31/10/15
Currency CANADIAN DOLLAR
Customer Tax Exemption No.
Customer Reference No. CA-0033364
Order Date 22/07/15
Order Number 0062129480
Finning Contact DAN VAN
Customer Contact GRAIG @ 403 504-9570
Customer Commitment Date 00/00/00
Actual Completion Date 22/07/15

Make CAT
Model 160M
Serial Number B9E01038
Unit Number 280-B9E01038
Meter Reading 1110.00
(22/07/15)

Line No.	Qty	Item No.	Description	U/M	Sales Price
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20		160M 160M	ENGINE REPAIR IN THE SHOP		
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Customer Reference No. CA-0033364
COMPLAINT: AIR COMPRESSOR AIR LINE BULGING.

CAUSE: HOSE WAS BULGING NEAR FITTING AT AIR COMPRESSOR ON ENGINE.

CORRECTION:

JULY 23

- REMOVE SIDE SHIELDS TO GAIN ACCESS TO AIR LINE AND CLAMPS.
- REMOVE DAMAGED AIR LINE AND TAKE OLD HOSE TO PARTS FOR REPAIR.

JULY 24

- RECEIVE PARTS.
- INSTALL NEW AIR LINE AS REQUIRED.
- ADD EXTRA TIES TO PREVENT HOSE FROM MAKING CONTACT.
- START UNIT AND CHECK FOR LEAKS.
- TEST AIR SYSTEM FOR PROPER OPERATING PRESSURE, SET AT 90 PSI.

GST/HST Registration Number: 101801561 RT0001

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Date 08/09/15
 Invoice Number 960920236
 Invoice Total
 Payment Terms PARTS & SERVICES DUE DATE
 Due Date 31/10/15

CUSTOMER NUMBER CA-0000950

Line No.	Qty	Item No.	Description	U/M	Sales Price
- INSTALL ALL SHIELDS AND BUG SCREENS.					
- CLEAN UP AND DONE.					

1	230.00	5P0720	CM-HOSE STK	CM	
3	2.00	1241891	COUPLING	PC	
4	2.00	1772215	STRAP-DUAL C	PC	
5	4.00	3S2093	STRAP-CABLE	PC	
6	3.00	1000-023- -SHP-001	JOURNEYMAN SHOP	EA	

Service Total

GST/HST Registration Number: 101801561 RT0001

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