



**WESTERN STAR & FREIGHTLINER TRUCKS  
of GRANDE PRAIRIE**

Address: 7802 - 110 Street | Grande Prairie, AB T8W 1M3  
Phone: 780-513-2236 | Toll Free: 1-866-388-7827 | Fax: 780-513-2846

Visit us online at [www.wsnorth.com](http://www.wsnorth.com)

Remit To: 24210 - 114 Avenue | Acheson, AB T7X 6B9

GST: R92297052

**\*\* Reprint \*\***

Invoice: **0020313647**  
Date / Hour: 6/8/2023 9:07:45AM  
Repair Order: 13647  
Customer: 50817  
Branch: GRP  
Total Invoice: \$32,918.41

\*\*\*CHARGE AR\*\*\*

Page 1 of 6

**Bill To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
GRANDE PRAIRIE, AB T8V 5J7

**Ship To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
GRANDE PRAIRIE, AB T8V 5J7  
Office Phone: 780-814-2010  
Email: [ap@economyconcrete.ca](mailto:ap@economyconcrete.ca)

Work: 780-814-2010

Fax: 888-490-8878

Customer P/O: F2012ENG

Open Date: 05/19/2023

Completion Date: 06/03/2023

Add User: CSTINSON

Salesperson: DFREDRICKSON

**Unit Number: F2012**

**Model Year: 2012**

**Make/Model: FTL SD CORONADO**

**Type: TRUCK**

**VIN: 1FVHGNDR5CDBN6611**

**Meter: 989428 Kilometers**

**In-Service Date: 06/03/2012**

**ECM Reading: 938251**

**Task: 1 40-200001.01 ENGINE REPAIR**

**Department: SERVICE**

**Complaint:** CHECK AND REPAIR FOR PYRO SHAKING

**Cause:** FAILED PYRO PROBE

**Correction:** REMOVED TURBO BELLOWS FROM ENGINE. GOT PYRO BUNG AND NEW PROBE. WELDED BUNG INTO TURBO BELLOWS. SET PROBE DEPTH. REINSTALLED ON ENGINE AND CONNECTED WIRING. PYRO PROBE STRIPPED THREADS OUT OF TURBO BELLOWS. ROAD TESTED UNIT, FOUND ITS RUNNING ROUGH, DID AN IDLE SPEED BALANCE TEST AND FOUND #1 HOLE IS DEAD, SEE LINE 2.

**Task 1 Subtotals**

Parts: \$0.00

Labor: \$0.00

Task 1 Subtotals \$0.00

**Task: 2 40-000002.01 ENGINE DIAGNOSE**

**Department: SERVICE**

**Complaint:** QUOTE INFRAME REPAIR

**Cause:** OVER FUELING INJECTOR SCORED CYLINDER

**Correction:** PULLED UNIT IN, VERIFIED COMPLAINT, CHECKED OIL LEVEL AND FOUND OIL IS 3-4L HIGH. HOOKED UP A LAPTOP AND PRINTED CODES AND INFO SHEET, FOUND 1 COUNT OF LOW OIL PRESSURE, 100 FMI 1. PERFORMED A RELATIVE COMPRESSION TEST AND FOUND #5 IS EXTREMELY LOW, ADVISED CUSTOMER. CUSTOMER APPROVED OVERHAUL. CYLINDER HEAD REMOVED ON LINE 1 FOR DIAGNOSIS. DRAINED OIL. REMOVED OIL PAN, PUMP AND PICKUP. REMOVED CYLINDER KITS AND LINERS. CLEANED BLOCK AND DECK. REMOVED AND REPLACED MAIN BEARINGS. TORQUED TO SPEC. ASSEMBLED NEW PISTON KITS. INSTALLED LINERS AND MEASURED PROTRUSIONS. OK. INSTALLED AND TORQUED 5 CYLINDER KITS. INSTALLED FINAL LINER. HAD TO REPLACE 1 CONNECTING ROD DUE TO UPPER BUSHING SHOWING SIGNS OF OIL STARVATION AND METAL TRANSFER. CLEANED CYLINDER HEAD. MEASURED HEAD BOLTS. FOUND ALL BOLTS AT OR ABOVE MAXIMUM STRETCH BOLT LENGTH. HAD TO REPLACE. INSTALLED AND TORQUED HEAD. INSTALLED TURBO, CONNECTED COOLANT LINES. CLEANED AND INSTALLED CAM FRAME. SET ALL VALVES AND JAKES. INSTALLED NEW INJECTORS AND FUEL LINES. INSTALLED VALVE COVER AND BRACKETS. CLEANED OIL PUMP AND PICKUP. FOUND DRAIN BACK VALVE IN OIL SUCTION MANIFOLD LEAKING BACK. WILL NEED TO REPLACE. CLEANED AND LUBED OIL PUMP, INSTALLED PUMP AND NEW PICKUP. CLEANED AND INSTALLED OIL PAN. FILLED NEW OIL THROUGH PRIMING PORT. FILLED NEW COOLANT. PRIMED FUEL SYSTEM. PROGRAMMED INJECTOR CODES. RAN ENGINE. VERIFIED FLUID LEVELS. RAN UP AND WASHED ENGINE OFF. CLEANED BAY. RETURNED CORES.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	03-35804-000	ISOLATOR, Air Cleaner	EA	1.0	\$20.71	\$20.71
	03-36867-010	FILTER, Air	EA	1.0	\$367.97	\$367.97
	DDE CA4600701087S	CORE, Injector 6 Pack	EA	-1.0	\$2,340.00	\$(2,340.00)
	DDE CA4730300220	CORE, CONN ROD	EA	-1.0	\$124.80	\$(124.80)
	DDE A0000905151	KIT, Fuel Filter DD15/16 (3pc KIT)	EA	1.0	\$104.41	\$104.41
	KIT(3PC)	FILTER KIT (3PC)				\$2.50
	DDE A0219901101	HEX HD BOLT	EA	4.0	\$13.88	\$55.52
	DDE A4700781710	LINE, Fuel High Pressure Cyl. 4-6 w/seal	EA	2.0	\$105.48	\$210.96

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Salesperson: DFREDRICKSON

Part Number	Description	EA	1.0	Price	Total
DDE A4700781710	LINE, Fuel High Pressure Cyl. 4-6 w/seal	EA	1.0	\$105.48	\$105.48
DDE A4700781810	LINE, Fuel High Pressure Cyl. 1-3 w/seal	EA	3.0	\$103.82	\$311.46
DDE A4720111810	KIT, Liner DD15 2010	EA	5.0	\$564.37	\$2,821.85
DDE A4720111810	KIT, Liner DD15 2010	EA	1.0	\$564.37	\$564.37
DDE A4720140322	SEAL, Oil Pan	EA	1.0	\$54.29	\$54.29
DDE A4720160121	SEAL, Valve Cover	EA	1.0	\$77.40	\$77.40
DDE A4720160169	BOLT, DD15	EA	38.0	\$17.75	\$674.50
DDE A4720161920	KIT, GASKET HD	EA	1.0	\$1,164.09	\$1,164.09
DDE A4720300445	BEARING, Std Thrust	EA	1.0	\$62.08	\$62.08
SOLD AS ONE BAG WITH 4 THRUST WASHERS IN IT					
DDE A4720300740	MAIN BEARING KIT	EA	7.0	\$108.66	\$760.62
DDE A4720300960	BEARING, Connecting Rod	EA	6.0	\$87.48	\$524.88
DDE A4720300960	BEARING, Connecting Rod	EA	2.0	\$87.48	\$174.96
DDE A4720302317	PISTON KIT	EA	6.0	\$781.00	\$4,686.00
DDE A4720380071	BOLT, CONN ROD	EA	9.0	\$7.85	\$70.65
DDE A4720380071	BOLT, CONN ROD	EA	3.0	\$7.85	\$23.55
DDE A4720709232	KIT - HIGH PRESSURE FUEL LINE	EA	1.0	\$158.26	\$158.26
DDE A4721806851	MANIFOLD, Oil Suction	EA	1.0	\$311.31	\$311.31
DDE A4721860095	SUPPORT	EA	1.0	\$113.72	\$113.72
DDE A4721870880	SEAL, DD15 Oil pump intake	EA	2.0	\$12.12	\$24.24
DDE A4721870980	SEAL, DD15 Oil pressure pipe at pump	EA	2.0	\$11.34	\$22.68
DDE A4721881480	SEAL Oil suction pipe to crankc	EA	1.0	\$21.10	\$21.10
DDE A4730960280	SEAL, Metal GHG14 Turbocharger mounting	EA	1.0	\$63.30	\$63.30
DDE A4731800909	TS OIL FILTER * D13/15/16	EA	1.0	\$41.70	\$41.70
OVER8	OVER 8"				\$1.00
DDE A5411870080	GASKET, Oil Return Line	EA	1.0	\$12.55	\$12.55
DDE CA4600701087S	CORE, Injector 6 Pack	EA	1.0	\$2,340.00	\$2,340.00
DDE CA4730300220	CORE, CONN ROD	EA	1.0	\$124.80	\$124.80
DDE EA4720300520	CONNECTING ROD	EA	1.0	\$363.95	\$363.95
DDE EA4720300520-C	CONNECTING ROD-Core	EA	1.0	\$124.80	\$124.80
DDE EA4730300220	ASM, Conn Rod	EA	1.0	\$497.03	\$497.03
DDE N000000001069	RING, Seal	EA	2.0	\$0.89	\$1.78
DDE N000000001103	RING, Seal	EA	1.0	\$10.23	\$10.23

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Customer P/O: F2012ENG	Open Date: 05/19/2023	Completion Date: 06/03/2023
Add User: CSTINSON	Salesperson: DFREDRICKSON	
DDE RA4600701087S	INJECTOR, Reliablit 6 Pack DD15/16 w/Seals & Bolts	EA 1.0 \$6,349.63 \$6,349.63
ISP R605FL10	KIT, Pyrometer	EA 1.0 \$265.50 \$265.50
OWI 23539617	COOLANT, Jug Detroit OAT ELC 50/50 Red, Nit free	EA 16.0 \$9.74 \$155.84
PCG-1/4	1/4 PIPE COUPLER	EA 1.0 \$4.50 \$4.50
SLL 500010131	OIL, ROTT3 FLEET 15W-40, CK-4 BULK OIL, ROTT3 FLEET	EA 46.0 \$5.24 \$241.04
SLL 500010131	OIL, ROTT3 FLEET 15W-40, CK-4 BULK OIL, ROTT3 FLEET	EA 45.0 \$5.24 \$235.80
SLL 500010131	OIL, ROTT3 FLEET 15W-40, CK-4 BULK OIL, ROTT3 FLEET	EA 43.0 \$5.24 \$225.32
OIL-BULK	BULK OIL	\$2.30
OIL-BULK	BULK OIL	\$2.25
OIL-BULK	BULK OIL	\$2.15
FREIGHT IN	INCOMING FREIGHT CHARGES RE:	1.0 \$45.00 \$45.00
SS SVC	SHOP SUPPLIES	1.0 \$521.64 \$521.64
<b>Task 2 Subtotals</b>		Parts: \$21,955.23 Core Chg: \$2,589.60 Core Ret: (\$2,464.80) EHC: 10.20 Labor: \$8,694.00 Miscellaneous: \$566.64 <b>Task 2 Subtotals \$31,350.87</b>

**Task: 4 40-000002.01 ENGINE DIAGNOSE**

**Department: SERVICE**

1120

**Complaint:** REMOVE AND REPLACE CONNECTING ROD, CHECK AND REPAIR MIS-FIRE AFTER REBUILD

**Cause:** WRONG PARTS

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Salesperson: DFREDRICKSON

**Correction:** RAN TRUCK UP AFTER INFRAME, NOTICED THAT UNIT HAS EXCESSIVE EXHAUST SMOKE, STUMBLE AND RUNNING ROUGH. RAN IDLE SPEED BALANCE TEST. FOUND #1 CYLINDER AT 100%. CUT OUT #1 AND UNIT SMOOTHED OUT SLIGHTLY. BROUGHT TRUCK INSIDE. REMOVED AIR FILTER HOUSING, BRACKETS, VALVE COVER, INJECTOR HARNESS AND #1 INJECTOR. INSTALLED NEW INJECTOR AND REASSEMBLED. PRIMED FUEL SYSTEM AND MOVED TRUCK OUTSIDE. RAN UP. FOUND UNIT STILL HAS EXCESS SMOKE AND STUMBLE. ANOTHER IDLE SPEED BALANCE TEST INDICATED THAT #1 CYLINDER WAS STILL FUELING AT 100%. BROUGHT TRUCK BACK INSIDE. RAN RELATIVE COMPRESSION TEST. FOUND #1 AT 68%. REMOVED AIR FILTER PIPING, VALVE COVER AND #1 INJECTOR. RAN MANUAL COMPRESSION TEST AND CYLINDER LEAK DOWN. MANUAL COMPRESSION ONLY REACHED 320 PSI. DRAINED OIL AND COOLANT. REMOVED FUEL LINES, INJECTORS, CAM FRAME, TURBO, COOLANT LINES, BRACKETS, CYLINDER HEAD AND OIL PAN. INSPECTED LINER, NO OBVIOUS ISSUES FOUND. REMOVED #1 PISTON ASSEMBLY, RINGS NOT STICKING OR DAMAGED. NOTICED ON REMOVAL THAT CONNECTING ROD WAS STAMPED WITH 473. NEW CONNECTING ROD THAT HAD BEEN REPLACED DURING OVERHAUL WAS INSTALLED IN #1. CHECKED PART NUMBER, CONFIRMED WRONG CONNECTING ROD HAD BEEN INSTALLED. DD16 ROD INSTEAD OF 15. MEASURED AND CONFIRMED THAT DD16 ROD WAS 4 MM SHORTER CAUSING LOW COMPRESSION AND RUNNING CONCERNS. ENGINE PULLED APART FOR DIAGNOSTIC ON LINE 3. ASSEMBLED PISTON WITH NEW CORRECT CONNECTING ROD. INSTALLED IN ENGINE. TORQUED ROD. CLEANED AND INSTALLED OIL PAN. CLEANED HEAD, INSTALLED AND TORQUED. CLEANED AND INSTALLED CAM FRAME. SET VALVES AND JAKES. CONNECTED COOLANT LINES AND WIRING. INSTALLED INJECTORS AND FUEL LINES. TORQUED. REINSTALLED HARNESSES, VALVE COVER, BRACKETS, AIR FILTER HOUSING. PRIMED OIL SYSTEM WITH NEW, FILLED COOLANT. PRIMED FUEL SYSTEM. RAN ENGINE, WASHED OFF. TEST DROVE UNIT. NO ISSUES RELATED TO RO.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	DDE A0219901101	HEX HD BOLT	EA	4.0	\$13.88	\$55.52
	DDE A4720140322	SEAL, Oil Pan	EA	1.0	\$54.29	\$54.29
	DDE A4720161920	KIT, GASKET HD	EA	1.0	\$1,164.09	\$1,164.09
	DDE A4720300960	BEARING, Connecting Rod	EA	1.0	\$87.48	\$87.48
	DDE A4720709232	KIT - HIGH PRESSURE FUEL LINE	EA	1.0	\$158.26	\$158.26
	DDE A4730960280	SEAL, Metal GHG14 Turbocharger mounting	EA	1.0	\$63.30	\$63.30
	DDE A4731800909	TS OIL FILTER * D13/15/16	EA	1.0	\$41.70	\$41.70
	OVER8	OVER 8"				\$1.00
	DDE CA4600701087	CORE, Injector	EA	1.0	\$390.00	\$390.00
	DDE RA4600701087	INJECTOR, Reliablitt DD15/16	EA	1.0	\$1,079.84	\$1,079.84

<b>Task 4 Subtotals</b>	Parts:	\$0.00
	Labor:	\$0.00
	<b>Task 4 Subtotals</b>	<b>\$0.00</b>

GST/HST Number: 892297052RT0001

Detail Tax Info:

GST \$1,567.54  
Total: \$1,567.54

<b>Total Parts:</b>	<b>\$21,955.23</b>
<b>Total Core Charge:</b>	<b>\$2,589.60</b>
<b>Total Core Ret:</b>	<b>\$(2,464.80)</b>

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Salesperson: DFREDRICKSON

<b>Total EHC:</b>	<b>\$10.20</b>
<b>Total Labor:</b>	<b>\$8,694.00</b>
<b>Total Miscellaneous:</b>	<b>\$566.64</b>
<b>Invoice Subtotal:</b>	<b>\$31,350.87</b>
<b>Total Tax:</b>	<b>\$1,567.54</b>
<b>Total Invoice:</b>	<b>\$32,918.41</b>

REPRINT

Payment Method	Terms	Due Date
***CHARGE AR***	NET 30	7/8/2023

Remit To

WESTERN STAR & FREIGHTLINER TRUCKS OF GRP  
24210 - 114 AVENUE  
ACHESON, AB T7X 6B9

HAVING AUTHORIZED REPAIRS TO MY (OUR) MOTOR VEHICLE, AND/OR AUTHORIZED PART(S) PURCHASES, I (WE) HERBY ACKNOWLEDGE MY (OUR) INDEBTEDNESS TO: WESTERN STAR TRUCKS (NORTH) LTD.

IN THE SUM OF \$ \_\_\_\_\_ BEING ALL OR THE BALANCE OF THE ACCOUNT FOR SAID WORK.

DATE: \_\_\_\_\_ X \_\_\_\_\_ ERRORS AND OMISSIONS EXCEPTED

\*\*\*\*\* EMAIL IN NOW AVAILABLE \* NO RETURNS ON ELECTRICAL \* CORES MUST BE RETURNED IN 90 DAYS FOR CREDIT \*\*\*\*\*  
\*\*\*\*\* EACH REPAIR TASK HAS BEEN INSPECTED FOR QUALITY AND FUNCTION VERIFIED - IF YOU ARE NOT COMPLETELY SATISFIED, PLEASE CONTACT DEPARTMENT MANAGER \*\*\*\*\*



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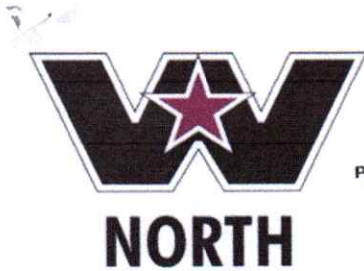
HAVING AUTHORIZED REPAIRS TO MY (OUR) MOTOR VEHICLE, AND/OR AUTHORIZED PART(S) PURCHASES, I (WE) HEREBY ACKNOWLEDGE MY (OUR) INDEBTEDNESS TO: WESTERN STAR TRUCKS (NORTH) LTD.

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Invoice: **0020316912**

Date / Hour: 7/31/2024 12:06:36PM

Repair Order: 16912

Customer: 50817

Branch: GRP

Total Invoice: \$32,196.58

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Salesperson: DFREDRICKSON

**Unit Number: F2012**

**Model Year: 2012**

**Make/Model: FTL SD CORONADO**

**Type: TRUCK**

**VIN: 1FVHGNDR5CDBN6611**

**Meter: 1056391 Kilometers**

**In-Service Date: 06/03/2012**

**Task: 1 07-000001.0 PERFORM EXPRESS ASSESSMENT**

**Department: SERVICE**

**Complaint: CHECK AND ADVISE FOR STEAM COMING OUT OF THE RECYCLER AND GOING THROUGH THE COOLANT**

**REPRINT**

\*\* See Last Page for Invoice Total \*\*



**WESTERN STAR & FREIGHTLINER TRUCKS  
of GRANDE PRAIRIE**

Address: 7802 - 110 Street | Grande Prairie, AB T8W 1M3  
Phone: 780-513-2236 | Toll Free: 1-866-388-7827 | Fax: 780-513-2846

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Remit To: 24210 - 114 Avenue | Acheson, AB T7X 6B9

GST: B92297082

**\*\* Reprint \*\***

Invoice: **0020316912**  
Date / Hour: 7/31/2024 12:06:36PM  
Repair Order: 16912  
Customer: 50817  
Branch: GRP  
Total Invoice: \$32,196.58  
**\*\*\*CHARGE AR\*\*\***

Page 2 of 12

**Bill To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
GRANDE PRAIRIE, AB T8V 5J7

**Ship To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
GRANDE PRAIRIE, AB T8V 5J7  
Office Phone: 780-814-2010  
Email: [ap@economyconcrete.ca](mailto:ap@economyconcrete.ca)

Work: 780-814-2010

Fax: 888-490-8878

Customer P/O: F2012

Open Date: 06/15/2024

Completion Date: 07/19/2024

Add User: VSIEBER

Salesperson: DFREDRICKSON

**Correction:** CHECKED FLUID LEVELS

OIL LOOKED A LITTLE OVER FULL BUT STILL BLACK AND DIRTY  
COOLANT WAS EXTREMELY LOW  
REMOVED EGR PIPE TO CHECK FOR COOLANT IN EGR INDICATING A CRACK, NO COOLANT FOUND AND IT WAS DRY  
TOWED TRUCK INTO SHOP USING LOADER  
PRESSURE TESTED COOLING SYSTEM AND DIDNT MAINTAIN PRESSURE AT ALL  
REMOVED OIL PAN AND OIL PUMP AND SUCTION TUBE AND FOUND THAT CYLINDER NUMBER 3 LINER WAS LEAKING BETWEEN  
THE LINER AND BLOCK

DISCUSS TO DISASSEMBLE FURTHER AND FIND ROOT LEAK

DRAINED COOLANT

REMOVED AIR FILTER, ROCKER COVER, CAM FRAME AND ALL COMPONENTS ATTACHED TO THE ABOVE.

REMOVED TURBO AND HEAD.

INSPECTED HEAD GASKET, MINOR CRACKS FOUND BETWEEN CYL 2,3 AND 3,4.

CHECKED CYLINDER PROTRUSION ON ALL CYLINDERS.

ALL GOOD EXCEPT 3.

THRUST SIDES LOWER AND THE MIN MAX RANGE WAS .0055.

LINER HAS EXCESSIVE WEAR/ SCORING ON THRUST SIDES.

REMOVED PISTON AND LINER.

EXCESSIVE WEAR/ SCORING ON PISTON SKIRT AND RINGS.

LOWER O-RING ON LINER FELL APART ON THRUST SIDES.

MEASURED ROUND OF LINER, OUT OF ROUND .012 ON TOP AND .023 ON BOTTOM.

MINOR PITTING ON SMALL AREA OF LINER SEAT OF BLOCK ON RT THRUST SIDE (WHERE PROTRUSION WAS LOWEST.)

WHILE REMOVING INJECTORS AND LINES, SMELL OF GASOLINE WAS NOTED.

TOOK SAMPLE FROM TANKS TO SEND OFF TO LAB.

\*NOTE: SAMPLE RESULTS STILL NOT IN AS OF 07/24

THOROUGHLY CLEANED DECK SURFACE OF HEAD TO REMOVE CARBON AND INSPECT.

FOUND MULTIPLE SMALL CRACKS RADIATING FROM EXHAUST VALVES.

CYL 6 REAR INTAKE VALVE RECESSON SEEMS EXCESSIVE.

CHECKED RECESSON ON ALL VALVES. CYL 6 IS VERY CLOSE TO FAILURE (.095, FAILURE BEING .098). INSPECTED EXHAUST

MANIFOLD AND FOUND LARGE CRACKS AT OUTLET.

LARGE CRACKS ALSO PRESENT ON TURBO.

TURBO HANGER BOLTS SHEARED OFF ON BLOCK.

INSPECTED CAMSHAFTS AND ROCKER SHAFTS.

FOUND ROLLER ON #4 EXHAUST ROCKER TO HAVE A COUPLE CHUNKS OUT OF IT.

USED TEST LINER TO CHECK LINER PROTRUSION ON 3 FOR SEAT CONDITION, GOOD.

INVITE CLIENT OVER AND DISCUSS FINDINGS

CLIENT APPROVED REPAIR ESTIMATE

REMOVED AND REPLACED ALL MAIN BEARINGS DUE TO COOLANT CONTAMINATION VERIFIED CRANKSHAFT END PLAY IS IN

SPEC, RECORDED A MEASUREMENT OF 0.010" INSTALLED NEW LINER INTO CYLINDER 3 LOCATION

ASSEMBLED NEW PISTON/ CON ROD AND INSTALLED INTO CYLINDER 3 FOLLOWING PROCEDURE

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VERIFIED LOWER TURBOCHARGER MOUNT BRACKETS BOLTS ARE BROKEN OFF IN THE ENGINE BLOCK. DRILLED AND EXTRACTED THE TWO BROKEN BOLTS. CHASED THREADS.

DISASSEMBLED CRACKED CYLINDER HEAD, CLEANED SEALING SURFACES OF THE WATER MANIFOLD AND INSTALLED TO NEW CYLINDER HEAD.

ASSEMBLED NEW EXHAUST MANIFOLD ASSEMBLY (REUSED THE EGR VALVE, INSTALLED WITH NEW STUDS, NUTS AND GASKETS) AND INSTALLED TO NEW CYLINDER HEAD. CLEANED AND INSTALLED THE INTAKE MANIFOLD WITH NEW GASKETS. INSTALLED NEW TURBO CHARGER TO ENGINE BLOCK, FOUND THE TURBO DRAIN LINE TO BE KINKED. REPLACED WITH NEW.

INSTALLED CYLINDER HEAD WITH NEW GASKET TORQUING TO SPEC  
INSTALLED NEW CONNECTING ROD BEARINGS FOR ALL SIX CYLINDERS

MEASURED GEARTRAIN LASH AFTER CYLINDER HEAD WAS INSTALLED, FOUND LASH TO BE OUT OF SPEC (0.010") ADJUSTED LASH TO SPEC, RECORDED A MEASUREMENT OF (0.0025")

PREFROMED OVERHEAD SET.

SET ALL INTAKE AND EXHAUST VALVE TO OEM LASH SETTINGS (ALL WERE OUT DUE TO NEW CYLINDER HEAD)  
ADJUSTED ALL JAKE BRAKES AFTER VALVE SET

CLEANED CAM FRAME, INSTALLED TO CYLINDER HEAD WITH NEW SEAL.

INSTALLED CAMSHAFTS, VERIFIED CAM TIMING IS IN SPEC.

INSTALLED ROCKER SHAFTS FOLLOWING DETROIT SERVICE MANUAL RESEALED AND INSTALLED ALL SIX FUEL INJECTORS.

INSTALLED NEW HIGH PRESSURE FUEL RAIL FEED LINES.

INSTALLED COOLANT CROSS OVER PIPE.

INSTALLED INTAKE PIPING, EGR HOT AND COLD PIPES.

INSTALLED EGR ACTUATOR AND COOLANT LINES.

REMOVE AND REPLACED AIR FILTER WITH NEW.

REMOVED AND REPLACED FUEL FILTERS.

REMOVED COOLANT FILTER AS IT IS NOT NEEDED WITH RED ELC COOLANT

DID NOT HAVE LEAKING FITTING IS STOCK

REMOVED AND INSTALLED A BALL VALVE IN PLACE OF PIPE EXTENSION

TOPPED COOLANT UP

DISASSEMBLED OIL PUMP/ SUCTION MANIFOLD ASSEMBLY

FOUND EVIDENCE OF CAVITATION IN THE OIL PUMP (SCOPED WITH INSPECTION CAMERA)

CLEANED SUCTION MANIFOLD TUBES AND MANIFOLD, ASSEMBLED WITH NEW OIL PUMP.

INSTALLED TO ENGINE BLOCK. CLEANED AND INSTALLED OIL PAN WITH NEW GASKET FOLLOWING DETROIT PROCEDURE.

REMOVED AND REPLACED OIL FILTER WITH NEW.

PRIMED OIL SYSTEM. VERIFIED OIL IS IN OVERHEAD.

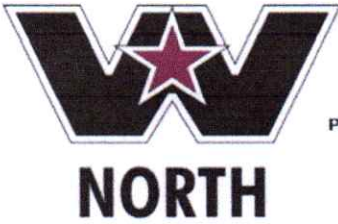
CLEANED VALVE COVER AND INSTALLED WITH NEW SEAL.

INSTALL WATER MANIFOLD AND AIR BOX.

INSTALLED INTAKE PIPING (HAD ONE CLAMP ON THE LHS INTAKE BOOT BREAK DURING INSTALL, REPLACED WITH NEW)

FILLED UNIT WITH NEW COOLANT. PRIMED FUEL SYSTEM.

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STARTED UNIT, VERIFIED NO ABNORMAL NOISES, VIBRATIONS OR FAULTS

BACKED UNIT OUTSIDE AND RAN UP FOR LEAK CHECK  
FOUND ONE HEATER HOSE CLAMP TO BE LEAKING COOLANT AND ONE ORB FITTING  
REPLACED CLAMP WITH NEW  
TIGHTENED ORB FITTINGS  
WASHED ENGINE, TOPPED UP COOLANT.  
LEFT UNIT ON HIGH IDLE FOR LEAK CHECK BEFORE ROAD TEST FOR PERFORMANCE.

TEST DROVE UNIT. ENGINE WORKS EXCELLENT  
JAKES WORK WELL.  
PULLS THROUGH POWER BAND NICELY  
LOOKED OVER UNIT AFTER ROAD TEST.  
FOUND THE ORB FITTING FOR THE HEATER CORE TO STILL BE LEAKING  
ORDERED A REPLACEMENT FITTING  
INSTALLED NEW FITTING

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	03-36867-010	FILTER, Air	EA	1.0	\$372.05	\$372.05
	320271103	ANALYSIS, Oil !! FOR RUSH SEE NOTES !!	EA	1.0	\$26.97	\$26.97
	407.14	WASHER, Flat 14 MM	EA	1.0	\$0.11	\$0.11
	DDE EA4730105020-C	CYLINDER HEAD DD15 EXCHANGE-Core	EA	-1.0	\$2,340.00	\$(2,340.00)
	DDE CA4720962499	CORE, EXH GAS TURBO	EA	-1.0	\$780.00	\$(780.00)
	DDE EA4721806601-C	OIL PUMP COMPL-Core	EA	-1.0	\$234.00	\$(234.00)
	DDE EA4720300520-C	CONNECTING ROD-Core	EA	-1.0	\$124.80	\$(124.80)
	884.122-D	NIPPLE, Hex 1/2"	EA	1.0	\$3.86	\$3.86
	884.125-10D	COUPLER, 5/8 Barb	EA	1.0	\$2.81	\$2.81
	884.X124-D	ELBOW, 45 Deg. 1/2	EA	1.0	\$4.27	\$4.27
	BRZ B9224 0443FRU	CLAMP, Hose 4" A/A	EA	1.0	\$10.53	\$10.53
	DDE A0000905151	KIT, Fuel Filter DD15/16 (3pc KIT)	EA	1.0	\$112.98	\$112.98
ON HAND	KIT(3PC)	FILTER KIT (3PC)				\$2.50
	DDE A0029903950	NUT, Hex	EA	4.0	\$6.46	\$25.84
	DDE A0029906514	STUD	EA	4.0	\$8.35	\$33.40
	DDE A0129974245	O-RING, HDEP	EA	1.0	\$4.78	\$4.78
	DDE A0219901101	HEX HD BOLT	EA	4.0	\$12.82	\$51.28

ON HAND

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DDE	Description	EA	QTY	UNIT PRICE	TOTAL PRICE
DDE A0309979045	O-RING, CYLINDER HEAD CLOSING COVER	EA	1.0	\$8.39	\$8.39
ON HAND					
DDE A0309979045	O-RING, CYLINDER HEAD CLOSING COVER	EA	1.0	\$8.39	\$8.39
DDE A4600700887	KIT, Injector Seal/Bolt	EA	4.0	\$54.06	\$216.24
DDE A4600700887	KIT, Injector Seal/Bolt	EA	2.0	\$54.06	\$108.12
DDE A4720111810	KIT, Liner DD15 2010	EA	1.0	\$526.90	\$526.90
ON HAND					
DDE A4720140322	SEAL, Oil Pan	EA	1.0	\$54.71	\$54.71
ON HAND					
DDE A4720140583	MOUNTING BOLT ASSEMBLY,OIL PAN	EA	2.0	\$9.16	\$18.32
DDE A4720160121	SEAL, Valve Cover	EA	1.0	\$81.29	\$81.29
ON HAND					
DDE A4720160880	MOUNTING SEAL, CAMSHAFT HOUSING	EA	1.0	\$88.18	\$88.18
ON HAND					
DDE A4720161420	GASKET, Head	EA	1.0	\$553.08	\$553.08
ORDER IN USA STK					
DDE A4720300445	BEARING, Std Thrust	EA	1.0	\$65.17	\$65.17
SOLD AS ONE BAG WITH 4 THRUST WASHERS IN IT					
DDE A4720300740	MAIN BEARING KIT	EA	7.0	\$100.79	\$705.53
DDE A4720300960	BEARING, Connecting Rod	EA	4.0	\$81.15	\$324.60
DDE A4720300960	BEARING, Connecting Rod	EA	2.0	\$81.15	\$162.30
DDE A4720302317	PISTON KIT	EA	1.0	\$765.80	\$765.80
ON HAND					
DDE A4720380071	BOLT, CONN ROD	EA	10.0	\$7.26	\$72.60
DDE A4720503634	BRAKE ROCKER	EA	1.0	\$340.36	\$340.36
DDE A4720503734	ROCKER, OUTLET SHAFT	EA	1.0	\$405.28	\$405.28
ON HAND					
DDE A4720709232	KIT - HIGH PRESSURE FUEL LINE	EA	1.0	\$147.92	\$147.92
DDE A4720780480	METAL SEAL, (PASS THRU SEAL)	EA	6.0	\$15.04	\$90.24
ON HAND					
DDE A4720980080	SEAL, Manifold DD15	EA	1.0	\$12.66	\$12.66
ON HAND					
DDE A4720980080	SEAL, Manifold DD15	EA	6.0	\$12.66	\$75.96

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Add User: VSIEBER	Salesperson: DFREDRICKSON	
DDE A4720980180	SEAL, DD15 Charge air pipe to elbow	EA 1.0 \$6.51 \$6.51
ON HAND		
DDE A4721300757	AIR LINE	EA 1.0 \$261.81 \$261.81
ON HAND		
DDE A4721401014	EXH MFLD KIT	EA 1.0 \$1,947.27 \$1,947.27
ON HAND		
DDE A4721421180	SEAL, DD15	EA 2.0 \$10.18 \$20.36
ON HAND		
DDE A4721422080	GASKET EGR Valve	EA 1.0 \$61.03 \$61.03
DDE A4721802520	OIL RETURN LINE	EA 1.0 \$62.00 \$62.00
DDE A4721870880	SEAL, DD15 Oil pump intake	EA 2.0 \$14.46 \$28.92
DDE A4721870980	SEAL, DD15 Oil pressure pipe at pump	EA 2.0 \$13.63 \$27.26
DDE A4721881480	SEAL Oil suction pipe to crankc	EA 1.0 \$22.59 \$22.59
DDE A4722030180	SEAL Outlet at coolant collecto	EA 1.0 \$7.80 \$7.80
DDE A4722030880	SEAL, CYL 1-3 COLLECTOR PIPE AT CYL HEAD	EA 1.0 \$42.15 \$42.15
DDE A4722030980	SEAL, CYL 4-6 COLLECTOR PIPE AT CYL HEAD	EA 1.0 \$32.23 \$32.23
DDE A4729980147	DECOUPLER	EA 6.0 \$19.97 \$119.82
ORDER IN CALGARY STK		
DDE A4729980147	DECOUPLER	EA 2.0 \$22.87 \$45.74
ORDER IN CALGARY STK		
DDE A4729980247	DECOUPLER	EA 4.0 \$21.76 \$87.04
ORDER IN CALGARY STK		
DDE A4729980747	DECOUPLER	EA 5.0 \$30.99 \$154.95
ON HAND		
DDE A4729980747	DECOUPLER	EA 2.0 \$30.99 \$61.98
DDE A4730960280	SEAL, Metal GHG14 Turbocharger mounting	EA 1.0 \$66.54 \$66.54
ON HAND		
DDE A4731800909	TS OIL FILTER * D13/15/16	EA 1.0 \$42.84 \$42.84
ON HAND		
OVER8	OVER 8"	\$1.00
DDE CA4720962499	CORE, EXH GAS TURBO	EA 1.0 \$780.00 \$780.00
ON HAND		

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Item Description	Part Number	Unit	Quantity	Unit Price	Total Price
DDE EA4720300520	CONNECTING ROD	EA	1.0	\$378.94	\$378.94
DDE EA4720300520-C	CONNECTING ROD-Core	EA	1.0	\$124.80	\$124.80
DDE EA4721806601	OIL PUMP COMPL	EA	1.0	\$425.45	\$425.45
DDE EA4721806601-C	OIL PUMP COMPL-Core	EA	1.0	\$234.00	\$234.00
DDE EA4730105020	CYLINDER HEAD DD15 EXCHANGE	EA	1.0	\$8,761.14	\$8,761.14
ON HAND					
DDE EA4730105020-C	CYLINDER HEAD DD15 EXCHANGE-Core	EA	1.0	\$2,340.00	\$2,340.00
ON HAND					
DDE N000000001066	RING, Seal	EA	2.0	\$3.78	\$7.56
ON HAND					
DDE N000000001069	RING, Seal	EA	2.0	\$0.92	\$1.84
ON HAND					
DDE N000000001070	RING, Seal	EA	1.0	\$1.07	\$1.07
ON HAND					
DDE N000000001070	RING, Seal	EA	1.0	\$1.07	\$1.07
ON HAND					
DDE N000000001071	RING, Seal	EA	2.0	\$3.39	\$6.78
DDE RA4720962499	TURBOCHARGER - REMAN	EA	1.0	\$2,850.55	\$2,850.55
ON HAND					
Serial Number must be recorded on the invoice for Warranty Purposes					
N210961 014001	SCREW CAP,HEX	EA	1.0	\$4.85	\$4.85
NL4905-250	2-1/2" SILICONE HOSE	IN	12.0	\$2.44	\$29.28
OWI 23539617T2	Coolant, Jug Detroit OAT ELC 50/50 Red, Nit free	EA	2.0	\$16.83	\$33.66
OWI 23539617T2	Coolant, Jug Detroit OAT ELC 50/50 Red, Nit free	EA	18.0	\$16.83	\$302.94
OIL-4L	4L OIL & CONTAINER				\$0.80
OIL-4L	4L OIL & CONTAINER				\$7.20
PH S4030	ADAPTER, M27 M.ORB x 1/2 F.NPT	EA	1.0	\$8.03	\$8.03
PH V500P8 04	VALVE, Water	EA	1.0	\$28.26	\$28.26
SLL 500010131	OIL, ROTT3 FLEET 15W-40, CK-4	EA	44.0	\$5.33	\$234.52
OIL-BULK	BULK OIL				\$2.20
FREIGHT IN	INCOMING FREIGHT CHARGES RE:		1.0	\$300.00	\$300.00

Task 1 Subtotals

Parts:

\$21,655.70

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Office Phone: 780-814-2010  
Email: [ap@economyconcrete.ca](mailto:ap@economyconcrete.ca)

Work: 780-814-2010

Fax: 888-490-8878

Customer P/O: F2012

Open Date: 06/15/2024

Completion Date: 07/19/2024

Add User: VSIEBER

Salesperson: DFREDRICKSON

Core Chg:	\$3,478.80
Core Ret:	(\$3,478.80)
EHC:	13.70
Labor:	\$8,694.00
Miscellaneous:	\$300.00
<b>Task 1 Subtotals</b>	<b>\$30,663.40</b>

REPRINT

**Task: 2 47-100028.01 COMPLIMENTARY INSPECTION**

**Department: SERVICE**

**Complaint:** PERFORM COMPLIMENTARY INSPECTION

**Cause:** CUSTOMER SATISFACTION

**Correction:** FOLLOWING ITEMS HAVE BEEN NOTED THAT REQUIRE ATTENTION OR MONITORING:  
PERFORMED COMP INSPECTION TO SEND TO CUSTOMER

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	CR INSPECT	CREDIT QUALITY INSPECTION		-1.0	\$89.49	\$(89.49)
	Labor Quote: 89.49					

<b>Task 2 Subtotals</b>	Parts:	\$0.00
	Labor:	\$89.49
	Miscellaneous:	\$(89.49)
<b>Task 2 Subtotals</b>		<b>\$0.00</b>

**Task: 3 42-100003.01 LOW COOLANT SENSOR R/R DD15/16**

**Department: SERVICE**

**Complaint:** REPAIR COOLANT LEVEL SENSOR WIRING IS HANGING LOOSELY

**\*\*\* COMP INSPECTION DEFECT \*\*\***

**Correction:** CUSTOMER DECLINED REPAIR. UNIT TAKEN AS IS.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	SS SVC	SHOP SUPPLIES		1.0	\$0.00	\$-

<b>Task 3 Subtotals</b>	Parts:	\$0.00
	Labor:	\$0.00
<b>Task 3 Subtotals</b>		<b>\$0.00</b>

**Task: 4 42-200001.01 COOLING SYSTEM REPAIR**

**Department: SERVICE**

**Complaint:** DIAGNOSE EXCESSIVE SWEAT AROUND FILTER MODULE

**\*\*\* COMP INSPECTION DEFECT \*\*\***

**Correction:** CUSTOMER DECLINED REPAIR. UNIT TAKEN AS IS.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
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**\*\* See Last Page for Invoice Total \*\***



**WESTERN STAR & FREIGHTLINER TRUCKS  
of GRANDE PRAIRIE**

Address: 7802 - 110 Street | Grande Prairie, AB T8W 1M3  
Phone: 780-513-2236 | Toll Free: 1-866-388-7827 | Fax: 780-513-2846

Visit us online at [www.wsnorth.com](http://www.wsnorth.com)

Remit To: 24210 - 114 Avenue | Acheson, AB T7X 6B9

GST: B91297052

**\*\* Reprint \*\***

Invoice: **0020316912**  
Date / Hour: 7/31/2024 12:06:36PM  
Repair Order: 16912  
Customer: 50817  
Branch: GRP  
Total Invoice: \$32,196.58  
**\*\*\*CHARGE AR\*\*\***

Page 9 of 12

**Bill To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
GRANDE PRAIRIE, AB T8V 5J7

**Ship To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
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Office Phone: 780-814-2010  
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Customer P/O: F2012

Open Date: 06/15/2024

Completion Date: 07/19/2024

Add User: VSIEBER

Salesperson: DFREDRICKSON

SS SVC	SHOP SUPPLIES	1.0	\$0.00	\$-
<b>Task 4 Subtotals</b>			Parts:	\$0.00
			Labor:	\$0.00
			<b>Task 4 Subtotals</b>	\$0.00

**Task: 5 11-200001.01 FRONT AXLE REPAIR**

**Department: SERVICE**

**Complaint:** REPAIR RHS AXLE #2 SHOCK LOOSE

\*\*\* COMP INSPECTION DEFECT \*\*\*

**Correction:** CUSTOMER DECLINED REPAIR. UNIT TAKEN AS IS.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
SS SVC		SHOP SUPPLIES		1.0	\$0.00	\$-
<b>Task 5 Subtotals</b>					Parts:	\$0.00
					Labor:	\$0.00
					<b>Task 5 Subtotals</b>	\$0.00

**Task: 6 11-200001.01 FRONT AXLE REPAIR**

**Department: SERVICE**

**Complaint:** REPLACE LHS AXLE #2 AIRLINER BUSHING WORN OUT (LIGHT SHINING THROUGH)

\*\*\* COMP INSPECTION DEFECT \*\*\*

**Correction:** CUSTOMER DECLINED REPAIR. UNIT TAKEN AS IS.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
SS SVC		SHOP SUPPLIES		1.0	\$0.00	\$-
<b>Task 6 Subtotals</b>					Parts:	\$0.00
					Labor:	\$0.00
					<b>Task 6 Subtotals</b>	\$0.00

**Task: 7 23-100001.01 CLUTCH ADJUSTMENT**

**Department: SERVICE**

**Complaint:** REPAIR CLUTCH OUT OF ADJUSTMENT

\*\*\* COMP INSPECTION DEFECT \*\*\*

**Correction:** CUSTOMER DECLINED REPAIR. UNIT TAKEN AS IS.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
SS SVC		SHOP SUPPLIES		1.0	\$0.00	\$-
<b>Task 7 Subtotals</b>					Parts:	\$0.00
					Labor:	\$0.00
					<b>Task 7 Subtotals</b>	\$0.00

\*\* See Last Page for Invoice Total \*\*



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GST 892297052

**\*\* Reprint \*\***

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Page 10 of 12

**Bill To:** ECONOMY CONCRETE LTD.  
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Work: 780-814-2010

Fax: 888-490-8878

Customer P/O: F2012

Open Date: 06/15/2024

Completion Date: 07/19/2024

Add User: VSIEBER

Salesperson: DFREDRICKSON

**Task: 8 34-200001.01 LIGHTING REPAIR**

**Department: SERVICE**

**Complaint:** DAIGNOSE 3 MARKER LIGHTS OUT ON PASSENGER SIDE

\*\*\* COMP INSPECTION DEFECT \*\*\*

**Correction:** CUSTOMER DECLINED REPAIR. UNIT TAKEN AS IS.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	SS SVC	SHOP SUPPLIES		1.0	\$0.00	\$-
<b>Task 8 Subtotals</b>						
						Parts: \$0.00
						Labor: \$0.00
<b>Task 8 Subtotals</b>						\$0.00

**Task: 9 34-200001.01 LIGHTING REPAIR**

**Department: SERVICE**

**Complaint:** DIAGNOSE D/S HOOD MARKER LIGHT IS OUT

\*\*\* COMP INSPECTION DEFECT \*\*\*

**Correction:** CUSTOMER DECLINED REPAIR. UNIT TAKEN AS IS.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	SS SVC	SHOP SUPPLIES		1.0	\$0.00	\$-
<b>Task 9 Subtotals</b>						
						Parts: \$0.00
						Labor: \$0.00
<b>Task 9 Subtotals</b>						\$0.00

**Task: 10 02-100013.01 WINDSHIELD TWO PIECE R/R ONE SIDE**

**Department: SERVICE**

**Complaint:** P/S WINDSHEILD HAS CHIPS IN IT

\*\*\* COMP INSPECTION DEFECT \*\*\*

**Correction:** CUSTOMER DECLINED REPAIR. UNIT TAKEN AS IS.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	SS SVC	SHOP SUPPLIES		1.0	\$0.00	\$-
<b>Task 10 Subtotals</b>						
						Parts: \$0.00
						Labor: \$0.00
<b>Task 10 Subtotals</b>						\$0.00

GST/HST Number: 892297052RT0001

Detail Tax Info:

GST \$1,533.18  
Total: \$1,533.18

<b>Total Parts:</b>	<b>\$21,655.70</b>
<b>Total Core Charge:</b>	<b>\$3,478.80</b>
<b>Total Core Ret:</b>	<b>\$(3,478.80)</b>

\*\* See Last Page for Invoice Total \*\*



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G57 892297052

**\*\* Reprint \*\***

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**Total Invoice:** \$32,196.58  
**\*\*\*CHARGE AR\*\*\***  
Page 11 of 12

**Bill To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
GRANDE PRAIRIE, AB T8V 5J7

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Fax: 888-490-8878

Customer P/O: F2012

Open Date: 06/15/2024

Completion Date: 07/19/2024

Add User: VSIEBER

Salesperson: DFREDRICKSON

<b>Total EHC:</b>	<b>\$13.70</b>
<b>Total Labor:</b>	<b>\$8,783.49</b>
<b>Total Miscellaneous:</b>	<b>\$210.51</b>
<b>Invoice Subtotal:</b>	<b>\$30,663.40</b>
<b>Total Tax:</b>	<b>\$1,533.18</b>
<b>Total Invoice:</b>	<b>\$32,196.58</b>

<u>Payment Method</u>	<u>Terms</u>	<u>Due Date</u>
***CHARGE AR***	NET 30	8/30/2024

Remit To

WESTERN STAR & FREIGHTLINER TRUCKS OF GRP  
24210 - 114 AVENUE  
ACHESON, AB T7X 6B9

HAVING AUTHORIZED REPAIRS TO MY (OUR) MOTOR VEHICLE, AND(OR) AUTHORIZED PART(S) PURCHASES, I (WE) HERBY ACKNOWLEDGE MY (OUR) INDEBTEDNESS TO: WESTERN STAR TRUCKS (NORTH) LTD.

IN THE SUM OF \$ \_\_\_\_\_ BEING ALL OR THE BALANCE OF THE ACCOUNT FOR SAID WORK.

DATE: \_\_\_\_\_ X \_\_\_\_\_ ERRORS AND OMISSIONS EXCEPTED

\*\*\*\*\* EMAIL IN NOW AVAILABLE \* NO RETURNS ON ELECTRICAL \* CORES MUST BE RETURNED IN 90 DAYS FOR CREDIT \*\*\*\*\*

\*\*\*\*\* EACH REPAIR TASK HAS BEEN INSPECTED FOR QUALITY AND FUNCTION VERIFIED - IF YOU ARE NOT COMPLETELY SATISFIED, PLEASE CONTACT DEPARTMENT MANAGER \*\*\*\*\*



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**Remit To:** 24210 - 114 Avenue | Acheson, AB T7X 6B9

GST # R92297052

**\*\* Reprint \*\***

**Invoice: 0020316912**

**Date / Hour: 7/31/2024 12:06:36PM**

**Repair Order: 16912**

**Customer: 50817**

**Branch: GRP**

**Total Invoice: \$32,196.58**

**\*\*\*CHARGE AR\*\*\***

**Page 12 of 12**

**Bill To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
  
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Email: [ap@economyconcrete.ca](mailto:ap@economyconcrete.ca)

Work: 780-814-2010

Fax: 888-490-8878

Customer P/O: F2012

Open Date: 06/15/2024

Completion Date: 07/19/2024

Add User: VSIEBER

Salesperson: DFREDRICKSON

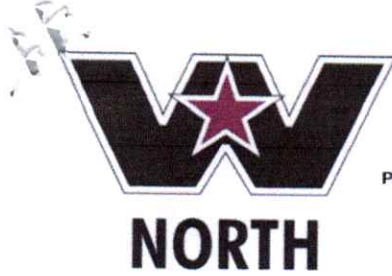
HAVING AUTHORIZED REPAIRS TO MY (OUR) MOTOR VEHICLE, AND(OR) AUTHORIZED PART(S) PURCHASES, I (WE) HEREBY ACKNOWLEDGE MY (OUR) INDEBTEDNESS TO: WESTERN STAR TRUCKS (NORTH) LTD.

IN THE SUM OF \$ **32,196.58** BEING ALL OR THE BALANCE OF THE ACCOUNT FOR SAID WORK.

DATE: \_\_\_\_\_ X \_\_\_\_\_ **REPRINT** ERRORS AND OMISSIONS EXCEPTED

\*\*\*\*\* EMAIL IN NOW AVAILABLE \* NO RETURNS ON ELECTRICAL \* CORES MUST BE RETURNED IN 90 DAYS FOR CREDIT \*\*\*\*\*

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Remit To: 24210 - 114 Avenue | Acheson, AB T7X 6B9

GST: 892297052

**\*\* Reprint \*\***

Invoice: **0020314207**  
Date / Hour: 7/24/2023 11:00:24AM  
Repair Order: 14207  
Customer: 50817  
Branch: GRP  
Total Invoice: \$3,725.80

\*\*\*CHARGE AR\*\*\*

Page 1 of 4

**Bill To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
  
GRANDE PRAIRIE, AB T8V 5J7

**Ship To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
  
GRANDE PRAIRIE, AB T8V 5J7  
Office Phone: 780-814-2010  
Email: [ap@economyconcrete.ca](mailto:ap@economyconcrete.ca)

Work: 780-814-2010

Fax: 888-490-8878

Customer P/O: F2012

Open Date: 07/14/2023

Completion Date: 07/21/2023

Add User: CWALLACE

Salesperson: DFREDRICKSON

**Unit Number: F2012**

**Model Year: 2012**

**Make/Model: FTL SD CORONADO**

**Type: TRUCK**

**VIN: 1FVHGNDR5CDBN6611**

**Meter: 998110 Kilometers**

**In-Service Date: 06/03/2012**

**ECM Reading: 9541**

**Task: 1 40-000002.01 ENGINE DIAGNOSE**

**Department: SERVICE**

**Complaint:** CHECK AND ADVISE FOR UNIT GOING THROUGH OIL AND COOLANT

**Cause:** CAM FRAME LEAKING, VALVE GUIDES LEAKING

**Correction:** BROUGHT TRUCK INSIDE. HOOKED UP LAPTOP. ONLY FAULTS RECORDED WERE LOW COOLANT LEVEL. NOT CURRENTLY ACTIVE. INSPECTED ENGINE. CHECKED ENGINE OIL LEVEL. FOUND HALFWAY UP MARKING ON DIPSTICK. CHECKED OVER ENGINE FOR LEAKS. APPEARS TO HAVE OIL SWEATING AT #3 EXHAUST MANIFOLD GASKET. RAN RELATIVE COMPRESSION TEST. ALL CYLINDERS GOOD. TEST DROVE TRUCK AROUND YARD WITH COMPRESSION GAUGE IN PLACE. NOT BUILDING EXCESS CRANKCASE PRESSURE. COULD ONLY REACH 1 IN-H2O. BROUGHT BACK INSIDE. DRAINED AIR TANKS, NO OIL CONTAMINATION FOUND. DISCONNECTED TURBO OUTLET, NO SIGNS OF OIL. POSSIBLE LEAKING VALVE SEALS. CHECKED OIL LEVEL AFTER ROAD TEST. FOUND NO CHANGE. REMOVED AIR FILTER HOUSING, BRACKETS AND VALVE COVER. USED SCOPE TO INSPECT VALVE GUIDE SEALS. FOUND LARGE NUMBER OF EXHAUST SIDE SEALS NOT SEATED. BACK OFF VALVES. REMOVED HP FUEL LINES, UNSECURED HARNESS. REMOVED CAM FRAME. REMOVED VALVE SPRINGS AND REPLACED ALL VALVE SEALS. REINSTALLED SPRINGS. CLEANED DECK AND CAM FRAME. REINSTALLED AND TORQUED. INSTALLED FUEL LINES AND TORQUED. SET ALL VALVES. INSTALLED INJECTOR HARNESSES, VALVE COVER, AIR FILTER HOUSING. PRIMED FUEL SYSTEM. RAN ENGINE. WASHED OFF. FOUND WHILE RUNNING UP THAT #4 INJECTOR FEED LINE FITTING WAS LEAKING. GOT NEW FEED LINE. INSTALLED AND TORQUED. WASHED OFF.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	DDE A4700530158	VALVE, STM Seal	EA	24.0	\$4.28	\$102.72
	DDE A4700781710	LINE, Fuel High Pressure Cyl. 4-6 w/seal	EA	1.0	\$107.35	\$107.35
	DDE A4720160880	MOUNTING SEAL, CAMSHAFT HOUSING	EA	1.0	\$85.87	\$85.87
	DDE A4720709232	KIT - HIGH PRESSURE FUEL LINE	EA	1.0	\$159.68	\$159.68
	DDE A4720780480	METAL SEAL, (PASS THRU SEAL)	EA	6.0	\$11.39	\$68.34
	DDE N000000001069	RING, Seal	EA	2.0	\$0.89	\$1.78
	SS SVC	SHOP SUPPLIES		1.0	\$143.64	\$143.64

**Task 1 Subtotals**

Parts: \$525.74  
Labor: \$1,795.50  
Miscellaneous: \$143.64  
**Task 1 Subtotals \$2,464.88**

**Task: 2 42-200001.01 COOLING SYSTEM REPAIR**

**Department: SERVICE**

**Complaint:** REPLACE LEAKING SURGE TANK AND OIL COOLANT MODULE TO AIR COMPRESSOR COOLANT LINE

**Cause:** SURGE TANK LEAKING

\*\* See Last Page for Invoice Total \*\*



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GST: 892297052

**\*\* Reprint \*\***

Invoice: **0020314207**  
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\*\*\*CHARGE AR\*\*\*

Page 2 of 4

**Bill To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
  
GRANDE PRAIRIE, AB T8V 5J7

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Work: 780-814-2010

Fax: 888-490-8878

Customer P/O: F2012

Open Date: 07/14/2023

Completion Date: 07/21/2023

Add User: CWALLACE

Salesperson: DFREDRICKSON

**Correction:** FOUND COOLANT LEAK AT SURGE TANK, APPEARS TO HAVE SMALL CRACK AS WELL AS FUEL COOLER RETURN LINE TO COOLANT MODULE LEAKING. DRAIN COOLANT FROM RAD AND BLOCK. REMOVE COOLANT LINE FROM FUEL FILTER HOUSING TO TOP OF ENGINE. TAKE TO PARTS AS A SAMPLE. REMOVE COOLANT SURGE TANK. BOLT ON TOP WAS SEIZED AND SPUN IN THE RAD. CUT HEAD OF BOLT OFF TO GET SURGE TANK OFF. INSTALL NEW SURGE TANK AND TORQUE BOLTS TO SPEC. INSTALL NEW COOLANT HOSE AND SURE IT THE WAY IT WAS. CLOSE ALL DRAINS AND VACUUM TEST REPAIRS. FILL AND TOP UP COOLANT. TOOK UNIT FOR ROAD TEST WITH BLOW-BY GAUGE INSTALLED. FULL LOAD ONLY REACHING 2.5-3 IN-H2O. STILL WITHIN SPEC.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	A05-25263-007	TANK, Surge	EA	1.0	\$516.53	\$516.53
	DDE A4722002452	LINE, Coolant T-STAT. to F/F Mod.	EA	1.0	\$37.19	\$37.19
	OWI 23539617	COOLANT, Jug Detroit OAT ELC 50/50 Red, Nit free	EA	2.0	\$9.74	\$19.48
	SS SVC	SHOP SUPPLIES		1.0	\$37.80	\$37.80
				<b>Task 2 Subtotals</b>	Parts:	\$573.20
					Labor:	\$472.50
					Miscellaneous:	\$37.80
					<b>Task 2 Subtotals</b>	<b>\$1,083.50</b>

GST/HST Number: 892297052RT0001

Detail Tax Info:

GST	\$177.42
<b>Total:</b>	<b>\$177.42</b>

<b>Total Parts:</b>	<b>\$1,098.94</b>
<b>Total Labor:</b>	<b>\$2,268.00</b>
<b>Total Miscellaneous:</b>	<b>\$181.44</b>
<b>Invoice Subtotal:</b>	<b>\$3,548.38</b>
<b>Total Tax:</b>	<b>\$177.42</b>
<b>Total Invoice:</b>	<b>\$3,725.80</b>

<u>Payment Method</u>	<u>Terms</u>	<u>Due Date</u>
***CHARGE AR***	NET 30	8/23/2023

Remit To

WESTERN STAR & FREIGHTLINER TRUCKS OF GRP  
24210 - 114 AVENUE  
ACHESON, AB T7X 6B9



**WESTERN STAR & FREIGHTLINER TRUCKS  
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**Remit To:** 24210 - 114 Avenue | Acheson, AB T7X 6B9

GST# R91297082

**\*\* Reprint \*\***

**Invoice:** 0020314207

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**Branch:** GRP

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**\*\*\*CHARGE AR\*\*\***

Page 3 of 4

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Fax: 888-490-8878

Customer P/O: F2012

Open Date: 07/14/2023

Completion Date: 07/21/2023

Add User: CWALLACE

Salesperson: DFREDRICKSON

**REPRINT**

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GST: 892297052

**\*\* Reprint \*\***

**Invoice:** 0020314207  
**Date / Hour:** 7/24/2023 11:00:24AM  
**Repair Order:** 14207  
**Customer:** 50817  
**Branch:** GRP  
**Total Invoice:** \$3,725.80  
**\*\*\*CHARGE AR\*\*\***

Page 4 of 4

**Bill To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
GRANDE PRAIRIE, AB T8V 5J7

**Ship To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
GRANDE PRAIRIE, AB T8V 5J7  
Office Phone: 780-814-2010  
Email: [ap@economyconcrete.ca](mailto:ap@economyconcrete.ca)

Work: 780-814-2010

Fax: 888-490-8878

Customer P/O: F2012

Open Date: 07/14/2023

Completion Date: 07/21/2023

Add User: CWALLACE

Salesperson: DFREDRICKSON

HAVING AUTHORIZED REPAIRS TO MY (OUR) MOTOR VEHICLE, AND/OR) AUTHORIZED PART(S) PURCHASES, I (WE) HEREBY ACKNOWLEDGE MY (OUR) INDEBTEDNESS TO: WESTERN STAR TRUCKS (NORTH) LTD.

IN THE SUM OF \$ 3,725.80 BEING ALL OR THE BALANCE OF THE ACCOUNT FOR SAID WORK.

DATE: \_\_\_\_\_ X \_\_\_\_\_ ERRORS AND OMISSIONS EXCEPTED

\*\*\*\*\* EMAIL IN NOW AVAILABLE \* NO RETURNS ON ELECTRICAL \* CORES MUST BE RETURNED IN 90 DAYS FOR CREDIT \*\*\*\*\*

\*\*\*\*\* EACH REPAIR TASK HAS BEEN INSPECTED FOR QUALITY AND FUNCTION VERIFIED - IF YOU ARE NOT COMPLETELY SATISFIED, PLEASE CONTACT DEPARTMENT MANAGER \*\*\*\*\*



**WESTERN STAR & FREIGHTLINER TRUCKS  
of GRANDE PRAIRIE**

Address: 7802 - 110 Street | Grande Prairie, AB T8W 1M3  
Phone: 780-513-2236 | Toll Free: 1-866-388-7827 | Fax: 780-513-2846

Visit us online at [www.wsnorth.com](http://www.wsnorth.com)

Remit To: 24210 - 114 Avenue | Acheson, AB T7X 6B9

GST: 892297052

**\*\* Reprint \*\***

Invoice: **0020316485**  
Date / Hour: 4/5/2024 4:22:20PM  
Repair Order: 16485  
Customer: 50817  
Branch: GRP  
Total Invoice: \$2,191.23

\*\*\*CHARGE AR\*\*\*

Page 1 of 3

**Bill To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
GRANDE PRAIRIE, AB T8V 5J7

**Ship To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
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Office Phone: 780-814-2010  
Email: [ap@economyconcrete.ca](mailto:ap@economyconcrete.ca)

Work: 780-814-2010

Fax: 888-490-8878

Customer P/O: F2012  
Add User: JENKERR

Open Date: 04/03/2024  
Completion Date: 04/05/2024  
Salesperson: DFREDRICKSON

**Unit Number: F2012**      **Model Year: 2012**      **Make/Model: FTL SD CORONADO**  
**Type: TRUCK**      **VIN: 1FVHGNDR5CDBN6611**      **Meter: 1042611 Kilometers**  
**In-Service Date: 06/03/2012**      **ECM Reading: 10569**

**Task: 1 24-100001.01 DRIVELINE REINSTALL AFTER TOW**      **Department: SERVICE**  
**Complaint:** REINSTALL DRIVELINE AFTER TOWED IN  
**Cause:** DRIVELINE REMOVED FOR TOWING  
**Correction:** REINSTALLED DRIVESHAFT. BROUGHT UNIT INSIDE.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	SP 250 70 18X	KIT, Strap SPL250	EA	2.0	\$30.13	\$60.26
	SS SVC	SHOP SUPPLIES		1.0	\$15.12	\$15.12
<b>Task 1 Subtotals</b>					<b>Parts:</b>	<b>\$60.26</b>
					<b>Labor:</b>	<b>\$189.00</b>
					<b>Miscellaneous:</b>	<b>\$15.12</b>
					<b>Task 1 Subtotals</b>	<b>\$264.38</b>

**Task: 2 40-000002.01 ENGINE DIAGNOSE**      **Department: SERVICE**  
**Complaint:** CHECK AND ADVISE CLUNK IN ENGINE, THEN NO OIL PRESSURE  
**Cause:** DAMAGED SUPPLY WIRE IN ENGINE HARNESS  
**Correction:** CHECKED OIL LEVEL. OK. ROLLED ENGINE OVER BY HAND. NO ISSUES. REMOVED AND INSPECTED OIL FILTER. NO SIGNS OF METAL OR CONTAMINATION. REINSTALLED FILTER. HOOKED UP LAPTOP. CONFIRMED LOW OIL PRESSURE FAULT PRESENT BUT ALSO FAULT CODE FOR OIL PRESSURE SENSOR CIRCUIT FAILED LOW, FUEL COMPENSATION PRESSURE SENSOR CIRCUIT, CAMSHAFT POSITION SENSOR CIRCUIT, DOSER LINE PRESSURE SENSOR CIRCUIT AS WELL AS MULTIPLE INJECTOR CONTROL AT MAX FAULTS. T/S FOR INJECTOR FAULTS INDICATES TO LOOK INTO CAM POSITION FAULTS FIRST. REVIEWED ENGINE HARNESS DIAGRAM. FOUND ALL SENSOR FAULTS PRESENT SHARE COMMON 5V SENSOR SUPPLY. TESTED POWER AND GROUND TO OIL PRESSURE SENSOR. 4.82V. SLIGHTLY LOWER THAN NORMAL. WIGGLED ENGINE HARNESS WHILE MONITORING VOLTAGE. FOUND RANDOM DROPS AND SPIKES IN VOLTAGE WHEN MCM 120 PIN CONNECTOR WAS MOVED. DISCONNECTED 120 PIN, DRAG TESTED TERMINALS, OK. CONTINUITY CHECKED SENSOR SUPPLY WIRE WHILE MOVING 120 CONNECTOR. ERRATIC READINGS. APPEARS WIRE IS DAMAGED IN HARNESS AT ELBOW INTO 120 PIN CONNECTOR. DISCONNECTED BATTERIES. REMOVED ALL ZIP TIES AND SECUREMENT. REMOVED RAD SUPPORT AND CAC PIPE, AND ENGINE HARNESS. INSTALLED NEW ENGINE HARNESS ROUTING TO AVOID ABRASION. RESECURED. REINSTALLED ALL COMPONENTS REMOVED PRIOR. CONNECTED LAPTOP TO SEE IF ANY FAULT CODES CAME UP FROM SOMETHING NOT BEING CONNECTED, NONE FOUND. STARTED UNIT AND CLEARED CODES.

Supp.	Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
	23-13322-008	STRAP, Dual Tie	EA	6.0	\$7.91	\$47.46
	DDE A4721505333	HARNESS	EA	1.0	\$754.44	\$754.44
	SS SVC	SHOP SUPPLIES		1.0	\$75.60	\$75.60
<b>Task 2 Subtotals</b>					<b>Parts:</b>	<b>\$801.90</b>
					<b>Labor:</b>	<b>\$945.00</b>

\*\* See Last Page for Invoice Total \*\*



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Remit To: 24210 - 114 Avenue | Acheson, AB T7X 6B9

GST: 892297052

**\*\* Reprint \*\***

Invoice: **0020316485**  
Date / Hour: 4/5/2024 4:22:20PM  
Repair Order: 16485  
Customer: 50817  
Branch: GRP  
Total Invoice: \$2,191.23  
**\*\*\*CHARGE AR\*\*\***

Page 2 of 3

**Bill To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
  
GRANDE PRAIRIE, AB T8V 5J7

**Ship To:** ECONOMY CONCRETE LTD.  
8910 - 154 AVENUE  
  
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Office Phone: 780-814-2010  
Email: [ap@economyconcrete.ca](mailto:ap@economyconcrete.ca)

Work: 780-814-2010

Fax: 888-490-8878

Customer P/O: F2012

Open Date: 04/03/2024

Completion Date: 04/05/2024

Add User: JENKERR

Salesperson: DFREDRICKSON

Miscellaneous: \$75.60  
Task 2 Subtotals \$1,822.50

GST/HST Number: 892297052RT0001

Detail Tax Info:

GST \$104.35  
Total: \$104.35

**Total Parts: \$862.16**  
**Total Labor: \$1,134.00**  
**Total Miscellaneous: \$90.72**  
**Invoice Subtotal: \$2,086.88**  
**Total Tax: \$104.35**  
**Total Invoice: \$2,191.23**

Payment Method      Terms      Due Date  
\*\*\*CHARGE AR\*\*\*      NET 30      5/5/2024

Remit To

WESTERN STAR & FREIGHTLINER TRUCKS OF GRP  
24210 - 114 AVENUE  
ACHESON, AB T7X 6B9

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**Remit To:** 24210 - 114 Avenue | Acheson, AB T7X 6B9

GST: 892297062

**\*\* Reprint \*\***

Invoice: **0020316485**  
Date / Hour: 4/5/2024 4:22:20PM  
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Page 3 of 3

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Salesperson: DFREDRICKSON

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