N		WESTERN STAR UCKS (NORTH) LTD. Address: 24210 - 114 Avenue Acheson, AB T7X 6B9 0-453-3452 Toll Free: 1-800-252-7500 Fac: 780-701-2272 Visit us online at www.wsnorth.com ht To: 24210 - 114 Avenue Acheson, AB T7X 6B9 CST: 89229762		Invoice: Date / Hour: Repair Order: Customer: Branch: Total Invoice:	: 40522):45PM
Bill To:	944925 ALBERTA LTD. BOX 176		Ship To:	944925 ALE BOX 176	BERTA LTD.	
	WILDWOOD, AB TOE 2MC)		WILDWOOI	D, AB T0E 2M0	
W	Vork: 780-318-1971		Fa	ax: 555-555-5	5555	
Customer P/O:		SMCMULLIN HOUSE	Orig R	R/O: 0	Completion Date:	1/22/2019
Unit Number	r: 2594	Model Year: 2013	Make/Mo	odel: WESTE	RN STAR 4900SF	-
			Meter: 659070 Miles			
Type: TRUC Task: 1 Complaint: C Correction: P S F C C	40-200001.01 ENGINE R CHECK AND ADVISE FOR CHECK E PERFOMRED DOWNLOAD, ACTIVE SPINNER. RAN UNIT AT 1500RPM A FOUND ENGINE HARNESS FAILED COOLANT LINES AT COMPRESSOR	REPAIR ENGINE LIGHT E CODE 5444/1 - ENGINE CRANKCASE SPINNER SPEED T IND MONITORED SPEED - READING ZERO. MEASURED V - MANY EXPOSED WIRES (LOOM BROKEN OFF) ON THE R LEAKING. DRAINED COOLANT AND REPLACED COOLAN	/OLTAGE AT HARNESS. NT LINES AN	PECTED AND FO CRANKCASE S REMOVED ENG	PINNER, ZERO VOLT GINE HARNESS, NOTIO R. REPLACED ENGINE	T OIL S. CED
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WESTERN STAR TRUCKS (NORTH) LTD.

Address: 24210 - 114 Avenue | Acheson, AB T7X 6B9 Phone: 780-453-3452 | Toll Free: 1-800-252-7500 | Fax: 780-701-2272

Visit us online at www.wsnorth.com Remit To: 24210 - 114 Avenue | Acheson, AB T7X 6B9 GST: 892297052

** Reprint ** Invoice: 001031600 Date / Hour: 1/25/2019 12:00:45PM Repair Order: 1600 Customer: 40522 Branch: WSN Total Invoice: \$20,823.30 ***Charge*** Page 2 of 5

Bill To: 944925 ALBERTA LTD. **BOX 176**

WILDWOOD, AB TOE 2M0

Ship To: 944925 ALBERTA LTD.

BOX 176

WILDWOOD, AB TOE 2M0

Work: 780-318-1971 Fax			Fax: 555-555-55	55
Customer P/O:	SMCMULLIN	HOUSE	Orig R/O: 0	Completion Date: 1/22/2019

Correction: RAN UNIT UP TO TEMP AND PERFORMED RELETIVE COMPRESSION TEST. FOUND #3 CYLINDER AT 53.5%. CHECKED VALVE SETTING. ALL VAVLES HAVE LASH. PERFORMED MANUAL COMPRESSION TEST - RAN UNIT UP TO OPERATING TEMP, REMOVED INTAKE TRACK, VALVE COVER AND FUEL LINES AND CAPPED FUEL RAIL. COMPRESSION RESULTS ARE ALL 500PSI EXCEPT CYLINDER #3 @ 400PSI. PERFORMED COMPRESSION TEST TWICE ON #3 TO VERIFY, SAME RESULTS AT 400PSI. TOOK OIL SAMPLE. SCOPPED #3 CYLINDER, FOUND MAJOR SCORING. REMOVED CYLINDER HEAD, FOUND #3 LINER VERY SCORED - ALL OTHER LINERS STARTING TO SHOW SIGNS OF FAILURE AND EXHAUST CENTER SECTION CRACKED.

DRAINED OIL, RAW COOLANT CAME OUT. REMOVED OIL PAN, SUMP, PISTONS AND LINERS. INSTALLED NEW MAIN BEARINGS. MEASURED CRANK END PLAY - 0.008IN. CLEANED DECK AND LINER BORE, INSTALLED NEW LINERS AND MEASURED PROTRUSION - IN SPEC. CLEANED BOTTOM OF BLOCK, CLEANED OUT OIL PUMP, PICK UP AND TUBES. REPLACED O-RINGS/SEALS AND PUT OIL PAN IN PARTS WASHER. VERIFIED OIL PUMP WAS PUSHING FLUID. RE-INSTALLED OIL PUMP, PICK UP TUBE AND OIL PAN. HOOKED UP OIL DIPSTICK TUBE AND OIL HEATER. BOLTED ON FLYWHEEL COVER AND FRONT HARNESS OIL PAN P-CLAMP. INSTALLED NEW PISTONS, CLEANED AND RE-INSTALLED HEAD. RE-INSTALLED CAM BOX, ALL FROST PLUGS WHERE LEAKING. REPLACED FROST PLUGS, RE-INSTALLED ROCKERS AND INJECTORS WITH NEW O-RINGS. INSTALLED NEW INJECTOR IN #3. PERFORMED VALVE SET, RE-ASSEMBLED HOT AND COLD SIDE OF ENGINE AND REPLACED OIL FILTER. RE-FILLED OIL AND COOLANT, PRIMED OIL AND FUEL SYSTEM, RAN UNIT UP TO TEMP, NO LEAKS PRESENT. UNIT HAD NO OIL PRESSURE AND CEL CAME ON. INSTALLED MANUAL GAUGE, FOUND OIL PRESSURE SENSOR FAILED. INSTALLED NEW OIL PRESSURE SENSOR. ALSO FOUND BYPASS VALVE BROKEN. INSTALLED NEW STAND PIPE, RAN UNIT UP - NO LEAKS AND NO CODES RETURNED.

Supp. Part	Description / Ref Number	U/M	Quantity	Price	Extended Price
DDE CA4600701087	CORE, Injector	EA	-1.0	\$406.25	(\$406.25)
Original Invoice: 001031600					
DDE A0000701532	HPF LINE KIT, DD15/16 EPA07/10 Three Filter	EA	1.0	\$77.53	\$77.53
DDE A0019950502	CLAMP, Pipe EPA2010	EA	1.0	\$29.75	\$29.75
DDE A0029903950	NUT, Hex	EA	4.0	\$5.07	\$20.28
DDE A0029906514	STUD	EA	4.0	\$6.95	\$27.80
DDE A0219901101	HEX HD BOLT	EA	4.0	\$13.43	\$53.72
DDE A4600700887	KIT, Injector Seal/Bolt	EA	5.0	\$47.37	\$236.85
DDE A4720111810	KIT, Liner DD15 2010	EA	6.0	\$333.19	\$1,999.14
DDE A4720140022	GASKET, Oil Pan DD15/16	EA	1.0	\$152.64	\$152.64
DDE A4720160680	SEAL, Rocker Box	EA	1.0	\$69.79	\$69.79
DDE A4720161420	GASKET, Head	EA	1.0	\$459.14	\$459.14
DDE A4720300445	BEARING, Std Thrust	EA	1.0	\$52.63	\$52.63
DDE A4720300740	MAIN BEARING KIT	EA	7.0	\$48.15	\$337.05
DDE A4720300960	BEARING, Connecting Rod	EA	6.0	\$47.00	\$282.00
DDE A4720302317	PISTON KIT	EA	6.0	\$524.51	\$3,147.06
DDE A4720380071	BOLT, CONN ROD	EA	12.0	\$6.62	\$79.44
DDE A4720780335	BOLT/CLAMP KIT	EA	1.0	\$28.09	\$28.09
DDE A4721400648	PIPE, Connector DD15 EGR Cooler (large)	EA	1.0	\$96.45	\$96.45
DDE A4721420901	MANIFOLD, Exhaust	EA	1.0	\$507.92	\$507.92
DDE A4721421880	GASKET, Exh. Manifold	EA	1.0	\$123.49	\$123.49
DDE A4721421980	GASKET, Exh. Manifold	EA	1.0	\$123.49	\$123.49
			** See Last	Page for Invoic	≏ Total **

See Last Page for Invoice Total



WESTERN STAR TRUCKS (NORTH) LTD.

Address: 24210 - 114 Avenue | Acheson, AB T7X 6B9 Phone: 780-453-3452 | Toll Free: 1-800-252-7500 | Fax: 780-701-2272

Visit us online at www.wsnorth.com Remit To: 24210 - 114 Avenue | Acheson, AB T7X 6B9 GST: 892297052

** Reprint ** Invoice: 001031600 Date / Hour: 1/25/2019 12:00:45PM Repair Order: 1600 Customer: 40522 Branch: WSN Total Invoice: \$20,823.30 ***Charge*** Page 3 of 5

Bill To:

944925 ALBERTA LTD. BOX 176

Ship To: 944925 ALBERTA LTD. BOX 176

WILDWOOD, AB TOE 2M0

WILDWOOD, AB TOE 2M0

	Work: 780-318-1971		Fa	ax: 555-555-5555		
Custom	ner P/O:	SMCMULLIN H	OUSE O	rig R/O: 0 Completio	on Date: 1/	/22/2019
	DDE A4721422080	GASKET EGR Valve	EA	1.0	\$47.27	\$47.27
	DDE A4721860095	SUPPORT	EA	1.0	\$95.36	\$95.36
	DDE A4721870880	SEAL, DD15 Oil pump intake	EA	2.0	\$9.77	\$19.54
	DDE A4721870980	SEAL, DD15 Oil pressure pipe at pun	np EA	4.0	\$7.34	\$29.36
	DDE A4721880180	GASKET	EA	1.0	\$20.83	\$20.83
	DDE A4722000154	PIPE, Connector DD15 EGR cooler (s	small) EA	2.0	\$15.74	\$31.48
	DDE A4729980290	SEALING COVER	EA	5.0	\$11.88	\$59.40
	DDE A4730960280	SEAL, Metal GHG14 Turbocharger m	ounting EA	1.0	\$50.64	\$50.64
	DDE A4731800409	KIT, Oil Filter D13/15/16	EA	1.0	\$35.55	\$35.55
	OVER8	OVER 8"		1.0	\$1.00	\$1.00
	DDE CA4600701087	CORE, Injector	EA	1.0	\$406.25	\$406.25
	DDE N00000001067	RING, Seal	EA	4.0	\$0.45	\$1.80
	DDE N00000001069	RING, Seal	EA	4.0	\$0.73	\$2.92
	DDE N00000001070	RING, Seal	EA	1.0	\$0.87	\$0.87
	DDE RA4600701087	INJECTOR, Reliabilt DD15/16	EA	1.0	\$921.28	\$921.28
	SLL 500010048	OIL, Rotella T4 15W40 CK4 BULK	L	1.0	\$4.77	\$4.77
	SLL 500010048	OIL, Rotella T4 15W40 CK4 BULK	L	2.0	\$4.77	\$9.54
	SLL 500010048	OIL, Rotella T4 15W40 CK4 BULK	L	42.0	\$4.77	\$200.34
	OIL-BULK	BULK OIL		1.0	\$0.05	\$0.05
	OIL-BULK	BULK OIL		1.0	\$0.10	\$0.10
	OIL-BULK	BULK OIL		1.0	\$2.10	\$2.10
	SLL 550045135	OIL, Rotella T4 15W40 CK4 JUG 5L/	1.32GAL JUG	2.0	\$21.62	\$43.24
	OIL-4L	4L OIL & CONTAINER		1.0	\$0.80	\$0.80
	SS SVC	SHOP SUPPLIES		1.0	\$219.24	\$219.24
			Task 2 Subtotals	Parts:		\$9,478.45
				Core Chg:		\$406.25
				Core Ret:		(\$406.25)
				EHC:		\$4.05
				Labor: Miscellaneous:		\$7,308.00 \$219.24
				Task 2 Subtotals	\$	\$219.24 17,009.74
Task:	3 47-100033.01 BREAK	K-IN DYNO				,
Com	plaint: PERFORM BREAK IN DYNO.	KS. RAN BREAK IN DYNO - NO ISSUES		Department	. JERVI	J L
				Quantity	Price	Extended
Supp.	Part Labor Quote: 250.00	Description / Ref Number	U/M	Quantity	FILE	Pric

Task 3 Subtotals

Parts:

** See Last Page for Invoice Total **

\$0.00

	WESTERN STAR
/ /	TRUCKS (NORTH) LTD

Address: 24210 - 114 Avenue | Acheson, ABT7X 6B9 Phone: 780-453-3452 | Toll Free: 1-800-252-7500 | Fax: 780-701-2272

Visit us online at www.wsnorth.com Remit To: 24210 - 114 Avenue | Acheson, AB T7X 6B9 GST: 892297052 ** *Reprint* ** Invoice: **001031600** Date / Hour: 1/25/2019 12:00:45PM Repair Order: 1600 Customer: 40522 Branch: WSN Total Invoice: \$20,823.30 ***Charge*** Page 4 of 5

Bill To:	944925 ALBERTA LTD. BOX 176	Ship To:	944925 ALBERTA LTD. BOX 176
	WILDWOOD, AB TOE 2M0		WILDWOOD, AB TOE 2M0

Work: 780-31	8-1971			Fax:	555-555-555	55		
Customer P/O:		SMCMULLIN	HOUSE	Orig I	R/O: 0	Completion	Date: 1/2	2/2019
					Labo			\$250.00
					Task 3 Subtota	lls		\$250.00
Task: 4 60-1	00010.01 PARTS WA	RRANTY			De	partment:	SERVIC	E
Complaint: DDESSUE		TASK #1 AND FAILED. REPLACED		600008				
	RESENSOR REPLACED ON	TASK #1 AND FAILED. REFLACED	SECOND TIME ON	TASK #2				Extende
Supp. Part		Description / Ref Number		<u>U/М</u>	Quantity		Price	Pric
DDE A007	71530828	SENSOR, PRESSURE		EA	1.0		\$42.79	\$42.79
			Task 4 Subt	otals	Part			\$0.00
					Labo			\$0.00
					Task 4 Subtota	lls		\$0.00
Detail Tax Info:					Total Parts	<u>.</u>	\$10),771.52
GST		\$991.59		Tota	I Core Charge			\$406.25
	Total:	\$991.59			-			
					Total Core Re		(\$406.25)
					Total EHC			\$4.05
					Total Labo	r:	\$8	,776.00
				Total N	Viscellaneous	s:		\$280.14
				Inv	oice Subtotal	:	\$19	,831.71
					Total Tax	c :		\$991.59
				-	Total Invoice	ə:	\$20 ,	323.30
Payment Method	Terms	Due Date	L					
Charge	NET 30	2/24/2019						
Remit To:								
WESTERN STAR	TRUCKS ACHESON							
24210 - 114 AVEN								
	-							

ACHESON, AB T7X 6B9

NORTH

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NORTH	

Bill To:

WESTERN STAR TRUCKS (NORTH) LTD.

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Ship To: 944925 ALBERTA LTD. BOX 176

WILDWOOD, AB TOE 2M0

WILDWOOD, AB TOE 2M0

944925 ALBERTA LTD.

BOX 176

Work: 780-318-1971	Fax: 555-555-5555				
Customer P/O:	SMCMULLIN	HOUSE	Orig R/O: 0	Completion Date: 1/22/2019	



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