

Payment terms are 30 days from invoice date unless otherwise agreed upon in writing;
Remit To: Cummins Rocky Mountain

P.O. Box 912138 Denver, CO 80291-2138

***	DE	DD	IN	T**

INVOICE NO 400-48115 REMIT TO: P.O.Box 912138 Denver, CO 80291-2138

BILL TO

OWNER

PAGE 1 OF 8

\*\*\* CHARGE \*\*\*

DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.		ENT MAKE
02-APR-2015	WARRANTY	29-DEC-2010	XTA15-E ENGINE SERIAL NO.	CPL NO.		ENT MODE
CUSTOMER NO. 6254656	SHIP VIA	FAIL DATE 26-MAR-2015	79450275	CPL349000		T700
REF. NO. 94442	SALESPERSON 34115	PARTS DISP.	MILEAGE/HOURS 484001	PUMP CODE	UN	iit no. 572
QUANTITY BACK ORDERED ORDERED	QUANTITY PART SHIPPED NUMBER	DESCRIPTION	PRODUCT CODE		UNIT PRICE	AMOUN
OSN/MSN/VIN	BJ285135		LICENSE	R073040		
COMPLAINT	OIL CONSUMPTION NO CHECK ENGINE					
	UNIT# 572					
	SITE CONTACT: VI SITE PHONE NO: 9 SITE LOCATION: 1	15-860-8592				
CAUSE	DSBGZ4515	O OLLY WITH O OTHER PROPERTY.				
CORRECTION	FOUND EXCESSIV POLISHED. REPLACE THE LIN 020303 03/26/2015		MORE THEM 40 % SURFAC	E		
	**PERFORMED JS	A AND PRE INSPECTION.				
	**HOOKED UP INS	ITE AND CREATED ECM IMMA	AGES.			
	**CHECKED QSOL THIS ESN.	FOR OPEN CAMPAIGNS. NO	CAMPAIGNS WERE OPEN	FOR		
	"TROUBLESHOO	T FOR CUSTOMER COMPLAIN	IT FOR OIL CONSUMPTION	١		
	020303 03/27/2019	5				

Billing Inquiries? Call (303)927-2116 or email RockyMountainCredit@cummins.com

THERE ARE ADDITIONAL CONTRACT TERMS ON THE REVERSE SIDE OF THIS DOCUMENT, INCLUDING LIMITATION ON WARRANTIES AND REMEDIES, WHICH ARE EXPRESSLY INCORPORATED HEREIN AND WHICH PURCHASER ACKNOWLEDGES HAVE BEEN READ AND FULLY UNDERSTOOD. REFUNDS: Cash refunds in excess of \$250 will be refunded by check, all other payments will be refunded in tender submitted.

\*\*OPENED EDS SESSION # DSBGZ4515

company of the second	SIGNATURE	DATE
AUTHORIZED BY (print name)	JOHATORE	



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\*\*\* CHARGE \*\*\*

DATE	CUSTOM	ER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPM	ENT MAKE
02-APR-2015	WARR	ANTY	29-DEC-2010	XTA15-E		KE	NWORTH
CUSTOMER NO.	8H	IP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPM	ENT MODEL
6254656			26-MAR-2015	79450275	CPL349000		T700
REF. NO.	SALE	SPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UN	IIT NO.
94442	3-	4115		484001			572
QUANTITY BACK ORDERED ORDERED	QUANTITY SHIPPED	PART NUMBER	DESCRIPTION	PRODUCT CODE		UNIT PRICE	AMOUNT
OSN/MSN/VIN	BJ2851	35		LICENSE	R073040		

\*\* FOLLOWED EDS FOR OIL CONSUMPTION INTERNAL.

\*\*CHECKED CUSTOMER RECORDS AND RECORDS INDICATE THAT THE OIL CHANGE INTERVAL IS EVERY 15000 MILES. CUSTOMER FILLED OUT AN OIL COSNUMPTION REPORT AND THE UNIT IS USING OIL BEYOND ALLOWED AMOUNT.

\*\*RAN THE UNIT ON THE DYNO AND MEASSURED BLOW BY. MEASSUREMENT CAME IN AT 16 IN H20. THIS READING IS HIGH BUT IN SPEC.

\*\*REMOVED THE INTAKE AND EXHAUST PIPING AND INPECTED THE TURBOCHARGER FOR TRACES OF OIL, AND OR WORN INDICATIONS. THERE WAS NO EVIDENCE OF OIL NOR DAMAGES TO THE TURBINE ON EITHER SIDE OF THE TURBOCHARGER.

\*\*TOOK OIL SAMPLE AND TESTED IT FOR COOLANT AND FUEL. NO CONTAMINATION WAS FOUND. ON THE OTHER HAND, IT HAS HIGH LEVELS OF CARBON.

\*\*REMOVED THE AIR CLEANER ASSEMBLY AND THE EGR CROSSTUBE.

\*\*\*\*\*\*NOTE\*\*\*\*\*

++++++IN ORDER TO REMOVE THE VALVE COVER, THE HVAC HOUSING ASSEMBLY ON THIS KW T700 UNIT MUST BE REMOVED. R&I SHOULD NOT TAKE MORE THAN 0.7 HRS.++++++++

\*\* REMOVED THE VALVE COVER AND INSPECTED THE VALVE SEALS FOR DAMAGES OR LIFTED SEALS. ALL SEALS LOOK OK.

020303 03/30/2015

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\*\*\* CHARGE \*\*\*

DATE	COSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE
02-APR-2015	WARRANTY	29-DEC-2010	XTA15-E		KENWORTH
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL
6254656		26-MAR-2015	79450275	CPL349000	T700
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
94442	34115		484001		572
QUANTITY BACK ORDERED ORDERED	QUANTITY PART	DESCRIPTION	PRODUCT CODE		UNIT PRICE AMOUNT

OSN/MSN/VIN

BJ285135

LICENSE R073040

- \*\*PERFORMED JSA
- \*\*CHECKED THE VALVE STEMS FOR SIGNS OF WEAR OR SCORING. VALVE STEMS LOOK SMOOTH.
- \*\*THE NEXT STEP IS TO REMOVE THE CYLINDER HEAD AND INSPECT THE LINERS, RINGS, AND PISTONS.
- \*\*REMOVED ALL OF THE FOLLOWING COMPONENTS IN ORDER TO REMOVE THE CYLINDER HEAD:
- 1. CAC PIPING.
- 2. CRANKCASE BREATHER ASSY.
- 3. A/C COMPRESSOR (EVACUATED REFRIGERANT)
- 4. ALTERNATOR
- 5. A/C COMPRESSOR AND ALTERNATOR BRACKET.
- 6. REMOVED THE COOLING PACKAGE COMPLETE.
- 7. FAN
- 8. FAN HUB ASSEMBLY.
- 9. BOTH BELT TENSIONERS.
- \*\*REMOVED THE FRONT COVER.
- \*\*REMOVED THE CAMSHAFT REAR CAP TO PREVENT CRACKING DURING GEAR TRAIN REMOVAL.
- \*\*REMOVED THE FOLLOWIG COMPONENTS AS PER QSOL:
- 1. CAM SHAFT GEAR.
- 2. CAM SHAFT FRONT CAP
- 3. FRONT AND REAR ROCKER LEVERS

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DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE
02-APR-2015	WARRANTY	29-DEC-2010	XTA15-E		KENWORTH
CUSTOMER NO. 6254656	SHIP VIA	FAIL DATE 26-MAR-2015	engine serial no. 79450275	CPL NO. CPL349000	EQUIPMENT MODE T700
REF. NO. 94442	SALESPERSON 34115	PARTS DISP.	MILEAGE/HOURS 484001	PUMP CODE	UNIT NO. 572
QUANTITY BACK ORDERED ORDERE	QUANTITY PART D SHIPPED NUMBER	DESCRIPTION	PRODUCT CODE		UNIT PRICE AMOUNT

OSN/MSN/VIN

BJ285135

LICENSE R073040

- \*\*REMOVED THE CAMSHAFT.
- \*\*REMOVED ROCKERS
- \*\*REMOVED THE CYLINDER HEAD.
- \*\*INSPECTED THE HEAD AND HEAD GASKET FOR DAMAGES. NO ISSUES WERE FOUND.
- \*\*INSPECTED THE VAVLES AND NO SIGNS OF EXCESSIVE WEAR OR DAMAGES WERE SEEN.
- \*\*INSPECTED THE CYLINDER LINERS AND FOUND THEM POLISHED ALL THROUGHOUT THE PISTON TRAVEL SURFACE. IN ADDITION FOUND A THICK LAYER OF CARBON BUILD UP ON THE UPPER RING OF THE LINER AS WELL AS THE UPPER OD OF ALL 6 PISTONS.
- \*\*PER EDS, BASED ON LINER POLISHING, TSB100982 MUST BE FOLLOWED. PISTOINS WILL NEED TO BE REPLACED IF THE ENGINE HAS CLOSED SKIRT / NON-REDUCED DIAMETER PISTOINS WITH A BUILD DATE AND ESN FALLING BELOW THE INFORMATION LISTED IN TABLE 1 OF THE TSB DOCUMENT.
- ++THIS ENGINE IS A FAMILY 1 ISX 15 CM2250 WITH NON-REDUCED DIAMETR PISTONS, THE ENGINE BUILD DATE IS NOVEMBER 30, 2010 WHICH IS BEFORE JULY 29, 2012 AND THE ESN IS 79450275 WHICH IS UNDER THE SERIAL NUMBER 79600476 IN TABLE 1 OF THE TSB DOCUMENT.
- \*\*BASED ON THE ABOVE, THE LINERS, PISTONS, AND PISTON RINGS MUST BE REPLACED.

020303 03/31/2015

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DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE	
02-APR-2015	WARRANTY	29-DEC-2010	XTA15-E		KENWORTH	
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL	
6254656		26-MAR-2015	79450275	CPL349000	T700	
REF. NO.	SALESPERSON PARTS DISP. MILEAGE/HOUI		MILEAGE/HOURS	S PUMP CODE UNI		
94442	34115		484001		572	
QUANTITY BACK ORDERED ORDERED	QUANTITY PART	DESCRIPTION	PRODUCT		UNIT PRICE AMOUNT	

OSN/MSN/VIN

BJ285135

LICENSE R073040

- \*\*PERFORMED JSA
- "DRAINED OIL AND REMOVED OIL PAN.
- \*\*REMOVED OIL PICK UP TUBE.
- \*\*REMOVED THE STIFNER PLATE.
- \*\*REMOVED THE PISTON COOLING NOZZLES, AND ALL OF THE PISTON AND ROD ASSEMBLIES FROM THE ENGINE.
- \*\*REMOVED AND REPLACED ALL 6 PISTONS AND PISTON RINGS.
- \*\*R&R ALL 6 LINERS. ONCE INSTLLED, MEASSURED CYLNDER LINER PROTRUSION AND ALL 6 LINERS WERE IN SPEC AT 0.011 AND 0.012 INCHES.
- \*\*INSTALLED THE NEW PISTONS WITH THE RODS ON TO THE ENGINE.
- \*\*INSTALLED THE PISTON COOLING NOZLES, STIFNER PLATE, PICK UP TUBE WITH A NEW O RING, AND OIL PAN WITH A NEW GASKET.
- ++SEE ADDITIONAL COMENTS+++
- \*\*CLEANED OFF THE OLD GAKET MATERIAL FROM THE CYLINDER HEAD AND PREPARED IT FOR INSTALLATION.
- \*\*INSTALLED THE CYLINDER HEAD

020303 04/01/2015

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\*\*\* CHARGE \*\*\*

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DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE
02-APR-2015	WARRANTY	29-DEC-2010	XTA15-E		KENWORTH
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL
6254656		26-MAR-2015	79450275	CPL349000	T700
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
94442	34115		484001		572

94442		34115			484001			572	
QUANTITY BACK ORDERED ORDERED	QUANTITY	PART NUMBER	DESCRIPTION		PRODUCT CODE		UNIT PRICE	AMOUNT	
OSN/MSN/VIN	BJ285	135			LICENSE	R073040			
1	1	4026684	GASKET,OIL PAN		CECO		152.45	152.45	*
1	1	3678756	SEAL,O RING		CECO		5.86	5.86	
12	12	773780	PREM BLUE 15W40	1 GALLO	VALVOLINE		14.31	171.72	
2	2	CC36077	OAT		FLG		15.30	30.60	
1	1	LF9080	PAC, LF		FLG		44.94	44.94	
1	1	21421	LUBRIPLATE 105 GF	REASE	KAR		16.08	16.08	
2	2	3824510	CLEANER, QD CONT	TACT	CECO		14.54	29.08	
1	1	3163075	PAINT		CECO		9.25	9.25	٠
1	1	3164067	SEALANT		CECO		13.75	13.75	•
4	4	3963990	WASHER, SEALING		CECO		2.95	11.80	•
				PARTS:				5,259.73	
				PARTS COV	ERAGE CREDIT:			5,259.730	CR
				TOTAL PAR	TS:		0.00		
				SURCHARG	E TOTAL:	ů.		0.00	
				LABOR:				5,422.90	
					ERAGE CREDIT:			5,422.900	R
				TOTAL LAB	OR:		0.00		
				MISC.:				0.00	
					RAGE CREDIT:			0.000	R
				TOTAL MISC			0.00		
				ENVIRONMI SERVICE SI				0.00	
WARRANTIES AP	PPLIED:	FACTORY	IN SHOP	OLIVIOE S	OFFLIES			0.00	

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DATE		IER ORDER NO.	DATE IN BERVICE	ENGINE MODEL	PUMP NO.		
02-APR-2015	WARF		29-DEC-2010	XTA15-E	FOMP NU.		MENT MAKE
6254656	81	HP VIA	FAIL DATE 26-MAR-2015	ENGINE SERIAL NO. 79450275	CPL NO.		NWORTH
REF. NO.	SALE	SPERSON	PARTS DISP.	MILEAGE/HOURS	CPL349000		T700
94442	3	34115		484001	PUMP CODE	N.	IIT NO. 572
ORDERED ORDERED	QUANTITY SHIPPED	PART NUMBER	DESCRIPTION	PRODUCT CODE		LINET DOLLAR	
OSN/MSN/VIN	BJ2851	35		CODE		UNIT PRICE	AMOUNT
		-		LICENSE	R073040		

FREE CUST PARTS DEPT

LOCAL 0.00 STATE 0.00

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DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIP	WENT MAKE			
02-APR-2015	WARRANTY	29-DEC-2010	XTA15-E		KE	NWORTH			
6254656	SHIP VIA	FAIL DATE 26-MAR-2015	engine serial no. 79450275	CPL NO. CPL349000		T700			
REF. NO. 94442	SALESPERSON 34115	PARTS DISP.	MILEAGE/HOURS 484001	PUMP CODE	U	NIT NO. 572			
DETAILS BACK ORDERED	OUANTITY PART SHIPPED NUMBER	DESCRIPTION	PRODUCT CODE		UNIT PRICE	AMOUNT			
OSN/MSN/VIN	BJ285135		LICENSE	R073040					
	**PERFORMED JS	4							
	**ASSAMBLED ALL	**ASSAMBLED ALL THE COMPONENTS IN REVERSE ORDER.							
	** INSTALLED CAM	** INSTALLED CAM AND ROCKERS							
	**PERFORMED OVERHEAD ADJUSTMENT								
	** INSTALLLED THE RADIATOR AND FOLLOWED QSOL FILL PROCEDURE TO ELIMINATE AIR POCKETS IN THE COOLING SYSTEM.								
	**ENGINE OIL DOE CONTAMINATION.	S NOT MEET REUSE CRITERIA DI	JE TO CARBON						
	**BASED ON THE ABOVE, R&R OIL FILTER AND FILLED ENGINE WITH NEW CLEAN OIL.								
	**STARTED ENGINE. CHECKED FOR LEAKS, NO LEAKS WERE SEEN.								
	**RAN ENGINE ON WERE FOUND.	A ROAD TEST THORUGH A BRAK	E IN CYCLE. NO ISSUE	8					
	**PAINTED ENGINE								
COVERAGE	**REPAIR COMPLE WARRANTY	re.							
6	6 2881719	KIT,LINER	CECO		404.40				
6	6 2881758	KIT, ENGINE PISTON			131.40	788.40			
1	1 4376104	KIT,UPPER ENGINE GASKET	CECO		518.30	3,109.80			
	1 4010104	KII, OPPER ENGINE GASKET	CECO		876.00	876.00			

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