



Sales and Service

EL PASO BRANCH
14333 GATEWAY WEST
EL PASO, TX 79928-
(915)791-6600

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

REPRINT

INVOICE NO

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

BILL TO

PAGE 1 OF 8

*** CHARGE ***

DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE
13-JUN-2014	WARRANTY	16-SEP-2010	ISX15 400ST		KENWORTH
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL
6254656		12-JUN-2014	79435499	CPL349000	T700
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
88621	34115		404548		544

QUANTITY ORDERED	BACK ORDERED	QUANTITY SHIPPED	PART NUMBER	DESCRIPTION	PRODUCT CODE	UNIT PRICE	AMOUNT
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OSN/MSN/VIN

BJ284855

COMPLAINT

-OIL CONSUMPTION
NO CHECK ENGINE LIGHT ON

UNIT# 544

SITE CONTACT: VICTOR MARISCAL
SITE PHONE NO: 915-860-8592
11991 TRANSPARK

SERVICE HISTORY: OVERHEAD PERFORMED ON JUN-09-2014 400-29968

CAUSE

DSBGK1221
FOUND EXCESSIVE POLISHING ON ALL LINER MORE THEM 40 % SURFACE
POLISHED.
REPLACE THE LINER AND PISTONS

HAD TO REPLACE EGR COOLER IS LEAKING INTERNALLY

CORRECTION

REPLACE VALVE CAM IT WAS PITTED
020303 12/26/2014

**PERFORMED JSA AND PRE INSPECTION.

**HOOKED UP INSITE AND CREATED ECM IMAGES.

**CHECKED QSOL FOR OPEN CAMPAIGNS. NO CAMPAIGNS WERE OPEN FOR
THIS ESN.

**TROUBLESHOOT FOR CUSTOMER COMPLAINT FOR OIL CONSUMPTION

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020303 12/29/2014

**PERFORMED JSA

**OPENED EDS SESSION # DSBGK1221

**FOLLOWED EDS FOR OIL CONSUMPTION INTERNAL.

**CHECKED CUSTOMER RECORDS AND RECORDS INDICATE THAT THE OIL
CHANGE INTERVAL IS EVERY 15000 MILES.

**RAN THE UNIT ON THE DYNO AND MEASURED BLOW BY. MEASUREMENT
CAME IN AT 15 IN H2O. THIS READING IS HIGH BUT IN SPEC.

**VERIFIED THE DIPSTICK BY DRAINING ALL THE OIL AND ADDING EXACTLY 12
GLS OF OIL. THE DIPSTICK WAS FOUND TO BE MEASURING CORRECTLY.

**REMOVED THE INTAKE AND EXHAUST PIPING AND INSPECTED THE
TURBOCHARGE 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.

**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

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LICENSE

DAMAGES OR LIFTED SEALS. ALL SEALS LOOK OK.

**CHECKED THE VALVE STEMS FOR SIGNS OF WEAR OR SCORING. VALVE STEMS LOOK SMOOTH.

**HOWEVER, THE VALVE CAMSHAFT IS SCORED BEYOND REUSE CRITERIA ON INTAKE LOBES FOR CYLINDERS 1, 2, AND 3. THE CAM SHAFT AND THE ROCKERS WILL NEED TO BE REPLACED.

**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:

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			BJ284855		LICENSE		

OSN/MSN/VIN

1. CAM SHAFT GEAR.
2. CAM SHAFT FRONT CAP
3. FRONT AND REAR ROCKER LEVERS

**REMOVED THE CAMSHAFT.

**REMOVED THE CYLINDER HEAD.

**DURING DIASSEMBLY, FOUND TRACES OF COOLANT ON THE REAR PIPE
CONNECTING THE EGR COOLER TO THE EGR VALVE.

**TOOK A SOOT SAMPLE, DESTILLED WATER AND A TEST STRIP. SAMPLE
TESTED POSITIVE FOR COOLANT.

**REMOVED AND REINSPECTED THE EGR COOLER PER QSOL AND FOUND THE
EGR COOLER LEAKING COOLANT. EGR COLER WILL NEED TO BE REPLACED.

020303 12/30/2014

**PERFORMED JSA

**INSPECTED THE CYLINDER LINERS AND FOUND THEM POLISHED MORE THAN
40%. 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.

**BASED ON THE ABOVE, THE LINERS, PISTONS, AND PISTON RINGS MUST BE
REPLACED.

**DRAINED OIL AND REMOVED OIL PAN.

**REMOVED OIL PICK UP TUBE.

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LICENSE

**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 INSTALLED, MEASURED CYLINDER 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 NOZZLES, STIFNER PLATE, PICK UP TUBE WITH A NEW O RING, AND OIL PAN WITH A NEW GASKET.

020303 12/31/2014

**PERFORMED JSA

**CLEANED OFF THE OLD GASKET MATERIAL FROM THE CYLINDER HEAD AND PREPARED IT FOR INSTALLATION.

**R&R EGR COOLER.

**INSTALLED THE CYLINDER HEAD

**ASSEMBLED ALL THE COMPONENTS IN REVERSE ORDER.

**R&R INTAKE ROCKERS FOR CYLINDERS 1, 2, AND 3.

**INSTALLED A NEW CAM AND ALL THE ROCKERS SHAFT ASSEMBLIES ON TO THE CYLINDER HEAD.

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60-8592

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OSN/MSN/VIN					
				LICENSE	UNIT PRICE AMOUNT

**PERFORMED OVERHEAD ADJUSTMENT

020303 01/02/2015

**PERFORMED JSA

** INSTALLED THE RADIATOR AND FOLLOWED QSOL FILL PROCEDURE TO
ELIMINATE AIR POCKETS IN THE COOLING SYSTEM.

++SEE ADDITIONAL COMENTS+++

**ENGINE OIL DOES NOT MEET REUSE CRITERIA DUE TO CARBON
CONTAMINATION.

**BASED ON THE ABOVE, R&R OIL FILTER AND FILLED ENGINE WITH NEW
CLEAN OIL.

**STARTED ENGINE. CHECKED FOR LEAKS. NO EAKS WERE SEEN.

**RAN ENGINE IN THE DYNO THORUGH A BRAKE IN CYCLE. NO ISSUES WERE
FOUND.

**PAINTED ENGINE.

**REPAIR COMPLETE.

** INSTALLED THE RADIATOR AND FOLLOWED QSOL FILL PROCEDURE TO
ELIMINATE AIR POCKETS IN THE COOLING SYSTEM.

++SEE ADDITIONAL COMENTS+++

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COVERAGE

WARRANTY
** INSTALLED THE RADIATOR AND FOLLOWED QSOL FILL PROCEDURE TO
ELIMINATE AIR POCKETS IN THE COOLING SYSTEM.

++SEE ADDITIONAL COMENTS++

6	6	2881719	KIT,LINER	CECO			
6	6	2881758	KIT,ENGINE PISTON	CECO	129.60	777.60	*
1	1	4376104	KIT,UPPER ENGINE GASKET	CECO	489.60	2,937.60	*
1	1	4026684	GASKET,OIL PAN	CECO	864.00	864.00	*
1	1	3670750	SEAL,O RING	CECO	149.46	149.46	*
12	12	773780	PREM BLUE 15W40 1 GALLO	CECO	5.75	5.75	*
2	2	CC36077	OAT	VALVOLINE	16.10	193.20	*
1	1	LF9080	PAC, LF	FLG	15.30	30.60	*
1	1	21421	LUBRIPLATE 105 GREASE	FLG	44.48	44.48	*
2	2	3824510	CLEANER, QD CONTACT	KAR	16.08	16.08	*
1	1	3163075	PAINT	CECO	14.54	29.08	*
1	1	3164067	SEALANT	CECO	9.25	9.25	*
1	1	4298629	CAMSHAFT	CECO	13.75	13.75	*
3	3	4298641	LEVER,ROCKER	CECO	1,296.00	1,296.00	*
1	1	4352360RX	KIT,EXH RCN COOLER	CECO	108.45	325.35	*
				DRC	1,307.20	1,307.20	*

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