

CUMMINS NORTHEAST REPAIR ORDER FOR THE 2010 INTERNATIONAL TRUCK

Annapolis, MD; 07/19/2013

HWY13FH018

(7 Pages)



REPRINT

INVOICE NO
Remil to: Cummins Northeast LLC PO Box 845328 Boston, MA 02284

BILL TO

BULK CARRIERS P.O. BOX 153 CORNWELL, PEI C0A1HO-

OWNER

BULK CARRIERS
P.O. BOX 153
CORNWELL, COA1HOBLAINE KELLY X5 - 902 675-2600

PAGE 1 OF 6

DATE	CUSTOMER ORDER NO.	DATE IN BERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE
19-JUL-2013	COD	12-AUG-2010	ISX 485		INTERNATIONAL
CUSTOMER NO.	SHIF VIA	FAIL DATE	ENGINE BERIAL NO.	CPL NO.	EQUIPMENT MODE
		08-JUL-2013			PROSTAR
REF. NO.	salesperson HB061	PARTS DISP.	MILEAGE/HOURS 667300	PUMP CODE	UNIT NO. 25105
QUANTITY BACK ORNERED OTHERE	QUANTITY PART D SHIPPED NUMBER	DESCRIPTION	PRODUCT CODE		UNITPRICE AMOUNT

OSN/MSN/VIN

XXXXXXXXXXXXXX

COMPLAINT

TOWED INTO SHOP - ENGINE IS MAKING EXCESSIVE NOISE

DSID: DSBCJ1051

1. VALVE CAMSHAFT FAILURE.

FOLLOWED T/S STEPS FOR ENGINE MAKING EXCESSIVE NOISE AND FAULT CODE 1921 AS DIRECTED BY CUMMINS EDS. PERFORMED A CYLINDER CUTOUT TEST WITH INSITE AND FOUND THE #1 CYLINDER CAUSING EXCESSIVE ENGINE NOISE. REMOVED THE VALVE COVER AND FOUND THE #1 EXHAUST VALVE CAM LOBE HAS FAILED CAUSING THE CROSSHEAD TO COME OFF AND DAMAGE THE CYLINDER HEAD AND #1 INJECTOR. REPLACED THE VALVE CAMSHAFT, DAMAGED ROCKER LEVERS, AND #1 INJECTOR. #1 EXHAUST ROCKER LEVER AND #1 ENGINE BRAKE ROCKER LEVER WERE BOTH DAMAGED AND NOT ACCEPTABLE FOR REUSE.

WE HAD TO REMOVE AND INSTALL THE HOOD, RADIATOR/CAC/AC ASSEMBLY, TRANSMISSION COOLER, BUMPER, AIR CLEANER, POWERSTEERING RESERVOIR, PASSENGER SEAT, AND ENGINE DOGHOUSE FOR ACCESS TO THE VALVE CAMSHAFT.

WE HAD TO REMOVE AND INSTALL ONE CROSSMEMBER UNDER THE OIL PAN TO REMOVE AND INSTALL THE OIL PAN.

WE CUT OPEN THE OIL FILTER AND FOUND METAL IN THE FILTER. REMOVED THE OIL PAN AND INSPECTED ROD AND MAIN BEARINGS. NO METAL OR DEBRIS IN BEARINGS. REMOVED THE OIL PUMP AND INSPECTED. NO DAMAGE TO OIL PUMP. REMOVED OIL COOLER AND COULD NOT REMOVE ALL METAL AND DEBRIS. REPLACED OIL COOLER CORE. REMOVED THE AFTERTREATMENT AND FOUND THE DOC FACEPLUGGED AND DPF BADLY BREACHED, REPLACED THE DPF AND CLEANED THE DOC, PERFORMED A STATIONARY REGEN TO CLEAR FAILT COOPE 1821 AFTER MAKING THE AROVE REPAIRS ONE

FAULT CODE 1921 AFTER MAKING THE ABOVE REPAIRS. ONE
AFTERTREATMENT CLAMP BROKE DURING REMOVAL AND HAD TO BE
REPLACED. THE NEW DPF REQUIRED A NEW CALIBRATION DUE TO TSB 101096.
WE HAD TO RECALIBRATE THE ECM FROM CODE AV10046.46 TO CODE
AV10239.09 USING INSITE V7.6. THIS REQUIRED A FLEET CAL.

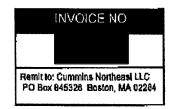
WE HAD TO REMOVE AND INSTALL BOTH INNER FENDERS AND THE COWL TRAY

Material returned for credit or exchange must show this invoice number. All material returned for credit subject to 15% handling charge. Appropriate core must be received within 15 days. Any claims for erroneous charges must be made within 30 days after receipt of goods. No credit for electrical assemblies without prior epproval from branch parts manager. Terms Net 30 pending credit approval. Orders/Service cannot be processed without credit approval and/or a deposit.

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PAGE 2 OF 8

*** CASH ***

DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	engine Model	PUMP NO.	EQUIPMENT MAKE
19-JUL-2013	COD	12-AUG-2010	ISX 485		INTERNATIONAL
CUSTOMER NO.	PHIP VIA	FAIL DAYE	ENGINE SERIAL NO.	OPL NO.	EQUIPMENT MODE
		08-JUL-2013			PROSTAR
REF. NO.	BALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
	HB061		667300		25105
QUANTITY BACK ORDERED ORDERE	U SHIPTED NUMBER	DESCRIPTION	PRODUCT CODE		UNIT PRICE AMOUNT

OSN/MSN/VIN

XXXXXXXXXXXXXXXX

FOR ACCESS TO THE CYLINDER HEAD,
THE CAMSHAFT POSITION SENSOR BROKE DURING REMOVAL FROM THE
CYLINDER HEAD AND HAD TO BE REPLACED. SIX ROCKER SHAFT BOLTS WERE
NOT ACCEPTABLE FOR REUSE AND WERE REPLACED. WE HAD TO REMOVE
AND INSTALL THE COWL TRAY AND BOTH INNER FENDERS FOR ACCESS TO
THE CYLINDER HEAD, ONE CHARGE AIR COOLER CLAMP AND TWO HOSE
CLAMPS BROKE DURING REMOVAL AND HAD TO BE REPLACED.

- 2. SERPENTINE BELTS WERE IN VERY POOR CONDITION, REPLACED BOTH BELTS.
- VALVE ROCKER SHAFT DETENTS WERE WORN, REPLACED BOTH SHAFTS, CUSTOMER CHARGED FOR PARTS ONLY NO LABOR.
- 4. REPLACED LEAKING WATER FILTER.

CORRECTION

ADMINISTRATIVE TIME - OPEN AND CLOSE REPAIR ORDER (SHOP REPAIRS) DISABLED VEHICLE - MOVE INTO SHOP (AUTOMOTIVE ONLY)

DRIVELINE - RECONNECT (AUTOMOTIVE ONLY)

HOOD, TILT - REMOVE AND INSTALL

RADIATOR, CHARGE AIR COOLER, AIR CONDITIONER CONDENSER ASSEMBLY -

REMOVE AND INSTALL (PART OF ANOTHER REPAIR)

HYDRAULIC OIL COOLER OR TRANSMISSION OIL COOLER - REMOVE AND

INSTALL

BUMPER - REMOVE AND INSTALL

AIR CLEANER ASSEMBLY - REMOVE AND INSTALL, FACH POWER STEERING RESERVOIR - MOVE FOR ACCESS

PASSENGER SEAT, WITHOUT QUICK RELEASE CLAMPS - REMOVE AND INSTALL ENGINE COVER, IN-CAB, WITHOUT QUICK RELEASE CLAMPS - REMOVE AND

INSTALL

CAMSHAFT VALVE - REMOVE AND INSTALL

OIL FILTER - CUT OPEN AND INSPECT (SPIN ON TYPE)

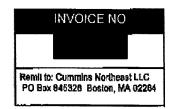
LUBRICATING OIL COOLER ASSEMBLY - REMOVE AND INSTALL -

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OWNER

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PAGE 3 OF 6

*** CASH ***

DATE	CUSTOMER ORDER ND.	DATE IN SERVICE	ENGINE MODEL	Pump No.	EQUIPMENT MAKE
19-JUL-2013	COD	12-AUG-2010	ISX 485		INTERNATIONAL
CUSTOMER NO.	SHIP VIA	FAIL DATE 08-JUL-2013	engine Berial No.	CPL NG.	equipment model PROSTAR
REF. NO.	Balesperson HB061	Parté diep.	MILEAGE/HOURS 667300	Pump Code	UNIT NO. 25105
QUANTITY BACK ORDERED ORDERE	QUANTITY PART SHIPPED NUMBER	DESCRIPTION	PRODUCT CODE		UNIT PRICE AMOUNT

OSN/MSN/VIN

XXXXXXXXXXXXXX

(CMB71/CM2250/CM2350)

INSITE - USE DURING TROUBLESHOOTING SIGNATURE ENGINES

PERFORM CYLINDER CUT OUT TEST

LUBRICATING OIL PUMP - REMOVE AND INSTALL

BEARINGS, MAIN, ROD AND THRUST - REMOVE AND INSTALL, ALL

AFTERTREATMENT DIESEL PARTICULATE FILTER - REMOVE AND INSTALL AFTERTREATMENT DIESEL OXIDATION CATALYST - REMOVE AND INSTALL

AFTERTREATMENT DIESEL OXIDATION CATALYST CLEANING

AFTERTREATMENT STATIONARY REGENERATION

TURBOCHARGER - INSPECT FOR REUSE (IN CHASSIS)

STEAM CLEAN - COMPLETE ENGINE

CYLINDER HEAD REMOVE AND INSTALL - WITH EGR

- DISCONNECT AND CONNECT BATTERIES
- MEASURE:
- CLEAN AND VISUALLY INSPECT ALL PARTS REMOVED FOR
- INSTALL:
- BASE ENGINE TIMING
- CHECK COOLANT ADDITIVE CONCENTRATION

COVERAGE REMARK

EXTENDED WARRANTY/BILLABLE/POLICY

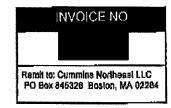
- 1. CHECK ENGINE LIGHT IS ON FOR THE OEM FAN SOLENOID/CIRCUIT. CUSTOMER WILL NEED TO TAKE THE TRUCK TO THE OEM FOR NEEDED
- REPAIRS.
- 2. THERE IS A COOLANT LEAK AT THE OEM CAB HEATER MANIFOLD ON THE RIGHT SIDE FRAME RAIL. CUSTOMER WILL NEED TO TAKE THE TRUCK TO THE OEM FOR NEEDED REPAIRS.
- 3. CUSTOMER IS BILLABLE FOR:
- AIR UP AND TOW THE TRUCK INTO THE SHOP.
- INSTALL THE DRIVESHAFT
- \$250 DEDUCTIBLE

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PAGE 4 OF 6

*** CASH ***

DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUI	iphent make
9-JUL-2013	COD	12-AUG-2010	ISX 485		INTE	RNATIONAL
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE BERIAL NO.	CPL NO.	EQUI	PMENT MODEL
		08-JUL-2013			***************************************	PROSTAR
REF. No.	sälesperson H8061	Parts Disp.	MILEAGE/HOURS	PUMP CODE		UNIT NO.
(A						25105
CANTITY DACK PROFILED	GUANTITY PART SHIPPED HUMBER	DESCRIPTION	PRODUCT CODE		UHIT PRIC	E AMOUNT
OSN/MSN/VIN	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					
	- BOTH VALVE ROU DETENT POCKETS	PLACED BECAUSE THEY WERE IN CKER SHAFTS REPLACED DUE TO ING WATER FILTER.				
1	1 4298626	CAMSHAFT	CECO		1,448.68	1,448.68
1	1 4965487	CORE,COOLER	CECO		310.62	310.62
1	1 2682570	SHAFT, ROCKER LEVER	CEGO		189.09	189.09
1	1 2882571	SHAFT,ROCKER LEVER	CECO		243.47	243.47
1	1 4298639	LEVER,ROCKER	CECO		125.14	125.14
1	1 4298641	LEVER,ROCKER	CECO		126.88	126.88
1	1 4955596	SET, UPPER ENGINE GASKET	CECO		924.75	924.75
1	1 4962732RX	HEAD, CYL ISX	DRC		3,379.20	3,379.28
1	1 3412280D	HEAD, CYL SIGNATURE 600	CLEAN		638.00	638.00
-1	-1 3412280D	HEAD, CYL SIGNATURE 600	DIRTY		638.00	- 638.00
1	1 4921599	SENSOR, POSITION	CECO		35.84	35.84
1	1 4954888PX	INJECTOR, HD/HPI	DRC		690.69	690.59
1	1 4062567D	INJ, HD-HPI NCVOS ALPHA	CLEAN		543.75	543.75
-1	-1 4062567D	INJ, HD-HPI NOVOS ALPHA	DIRTY		543.75	- 543.75
1	1 73714	SILICON LINED CLAMP	OTHER		.99	0.99
1	1 WF2127	PAC, WF	FLĠ		27.26	27.26
40	40 81807-10	11.41" LENGTH TIES	OTHER		.43	17.20
1	1 05084	BRAKLEEN	OTHER		2.78	2.79

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PAGE 5 OF 6

*** CASH ***

E	iipment Make	EQUIP	риме но.	engine Model	DAYE IN GERVICE	dmer order ho.	CORTO	DATE
L	RNATIONAL	INTERI		ISX 485	12-AUG-2010)	COD	19-JUL-2013
	PROSTAR		CPL NO.	ndine Gerial No.	FAIL DATE 08-JUL-2013	SHIP VIA	8	CUBTOMER NO.
ı	UNIT NO. 2510	V	fukt code	MILEAGE/HOUR\$ 687300	PARTS DISP.	HB061		REF. NO.
	e amoun	UNITARICE		PRODUCT CONE	DESCRIPTION	TY PART D NUMBER	QUANTITY SHIPPED	NANTITY BACK IRDERED ORDERED
						0000000000	XXXX	OSNIMSNIVIN
ŀ	81.4	81.44		CECO	SET, LUB OIL COOLER GASKET	4955592	1	1
i	14.3	7.15		CECO	GASKET,OIL COOLER CORE	2 4973532	. 2	2
ï	10.5	2.11		CECO	SEAL,O RING	5 3683814	5	5
ĺ	18.6	18.67		CECO	GASKET, CONNECTION	1 3684338	1	1
į	7.3	7.37		CECO	SEAL,O RING	4069172	1	1
ĺ	38.9	38.93		FLG	PAC, LF	1 LF9080	1	1
	16.7	16.75		NGP	5" STAINLE	1 90368A	1	1
,	20.4	10.22		CECO	GASKET, EXH GAS RCN VALVE	2 3683537	2	2
į	3.5	3.58		CECO	SEAL,MOLDED	3603607	1	1
•	76.2	76.21		OTHER	BELT	3817452C1	1	1
,	22.7	22.70		OTHER	BELT	3565412C1	1	1
į	19.9	9.99		CECO	CLAMP,HOSE	3922850	2	2
į	10.4	5.21		CECO	SEAL, GROMMET	2 \$1077	2	2
ļ	39.9	8.66		CECO	SCREW, HEX FLANGE HEAD CAR	3881221	6	5
ļ	163.0	12.54		VALVOLINE	PREM BLUE GA BULK 15W40	3 VV705290	13	13
į	39.9	19.96		CECO	GASKET,ADAPTER	2 2871453	2	2
ĺ	12.3	12.38		CECO	GASKET, EXH OUT CONNECTION	3684355	1	1
,	10.2	10.22		CECO	GASKET, EXH OUT CONNECTION	3684359	1	1
,	16.2	16.28		CECO	CLAMP, SPRING HOSE	3926704	1	1
ĺ	2,483.3	2,483.38		DRC	MODULE, PARTICULATE FILTER	5297990NX	1	1
•	833.7	633.75		CLEAN	MODULE, PARTICULATE FILTE	l 4965129D	1	1

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	INVOICE NO
Remi PO E	to: Cummins Northeast LLC px 845326 Boston, MA 02284

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PAGE 6 OF 6

*** CASH ***

DATE	CUSTO	MER ORDER NO.	DATE IN SERVICE	ENOINE MODEL	PUNP NO.	EQÚÍP	hent make
19-JUL-2013	COD		12-AUG-2010	ISX 485		INTER	NATIONAL
CUSTOMER NO.		HIP VIA	FAIL DATE	<u>ENOINE BERNAL NO.</u>	CPL NO.	EQUIP	HENT MODEL
			08-JUL-2013				PROSTAR
Ref. No.		ESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP GODE	U	HIT NO.
		HB061		667300			25105
OUANTITY BACK ORDERED ORDERED	OUANTITY SHIPPED	PAKT NUMBER	DESCRIPTION	PRODUCT CODE		UNIT PRICE	AMOUNT
OSN/MSN/VIN	XXXXX	XXXXXXXXXXX	IAL AHAD SHILLE HILPHY A TIP I PHI CZYMARZ MARKAWA PARA PARA PARA PARA PARA PARA PARA P				
-1	-1	4965129D	MODULE, PARTICULATE FILT	TE DIRTY		833.75 -	633.75
1	1	2071063	CLAMP, V BAND	CECO	,	59.74	59.74 *
1	1	3886396	6.2 CALIBRATION FLT REG.	CECO		55.55	55.55
1	1	3678756	SEAL,O RING	CECO		7.36	7.36 *
			PARTS:	:			10,751.79
			PARTS	COVERAGE CREDIT:			10,176.23 CF
			TOTAL	PARTS:		575.56	
				ARGE TOTAL:			0.00
			LABOR:				5,497.00
			LABOR	COVERAGE CREDIT:			5,382.00 CF
			· · -	LABOR:		115.00	
			MISC.:				250.00
			MISC. C	OVERAGE CREDIT:			0.00 CF
			TOTAL	- •		250.00	
WARRANTIES AT	eelien.	OVE EDEC (EDHAM/DEDUCT/ONLY			250.00
MAULWHIES VI	rrucu.	CNE FREE C	JUST SERV				
		FACTORY POLICY					
		FWMIGT			#3.300 s annu-		
					STATE		36.97

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AUTHORIZED BY (print name)		DATE	