



**CUMMINS NORTHEAST REPAIR ORDER
FOR THE 2010 INTERNATIONAL TRUCK**

Annapolis, MD; 07/19/2013

HWY13FH018

(7 Pages)

DEDHAM
 100 ALLIED DRIVE
 DEDHAM, MA 02026-
 (781)329-1750

REPRINT

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

BILL TO

BULK CARRIERS
 P.O. BOX 153
 CORNWELL, PEI COA1HO-

OWNER

BULK CARRIERS
 P.O. BOX 153
 CORNWELL, COA1HO-
 BLAINE KELLY X5 - 902 675-2800

PAGE 1 OF 6

*** 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.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL		
		08-JUL-2013			PROSTAR		
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.		
	HB081		667300		25105		
QUANTITY ORDERED	BACK ORDERED	QUANTITY SHIPPED	PART NUMBER	DESCRIPTION	PRODUCT CODE	UNIT PRICE	AMOUNT

OSN/MSN/VIN XXXXXXXXXXXXX

COMPLAINT TOWED INTO SHOP - ENGINE IS MAKING EXCESSIVE NOISE
CAUSE 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 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 TSB101098. 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 approval from branch parts manager. Terms Net 30 pending credit approval. Orders/Service cannot be processed without credit approval and/or a deposit.

AUTHORIZED BY (print name) _____ SIGNATURE _____ DATE _____

DEDHAM
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 DEDHAM, MA 02026-
 (781)329-1750

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 CORNWELL, PEI COA1HO-

OWNER

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 CORNWELL, COA1HO-
 BLAINE KELLY X5 - 902 675-2600

PAGE 2 OF 8

*** CASH ***

DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE		
19-JUL-2013	GD	12-AUG-2010	ISX 485		INTERNATIONAL		
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	DPL NO.	EQUIPMENT MODEL		
		08-JUL-2013			PROSTAR		
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.		
	HB061		667300		25105		
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OSN/MSN/VIN XXXXXXXXXXXXX

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.

3. 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, EACH
 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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AUTHORIZED BY (print name) _____ SIGNATURE _____ DATE _____



This invoice is due 30 days from date No. 1815. A \$P. 3 charge will be applied for unpaid balances.

DEDHAM
100 ALLIED DRIVE
DEDHAM, MA 02026-
(781)329-1750

REPRINT

INVOICE NO
Remit to: Cummins Northeast LLC PO Box 846328 Boston, MA 02284

BILL TO

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

OWNER

BULK CARRIERS
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CORNWELL, C0A1HO-
BLAINE KELLY X5 - 902 675-2600

PAGE 3 OF 6
*** 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.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL
		08-JUL-2013			PROSTAR
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
	HB061		667300		25105

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				OSN/MSN/VIN	XXXXXXXXXXXX		

(CM871/CM2260/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
EXTENDED WARRANTY/BILLABLE/POLICY

**COVERAGE
REMARK**

- CHECK ENGINE LIGHT IS ON FOR THE OEM FAN SOLENOID/CIRCUIT. CUSTOMER WILL NEED TO TAKE THE TRUCK TO THE OEM FOR NEEDED REPAIRS.
- 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.
- CUSTOMER IS BILLABLE FOR:
 - AIR UP AND TOW THE TRUCK INTO THE SHOP.
 - INSTALL THE DRIVESHAFT
 - \$250 DEDUCTIBLE

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AUTHORIZED BY (print name) _____ SIGNATURE _____ DATE _____



Jul. 22. 2013 12:36PM

This invoice is due 30 days from date No. 1815. A s P. 4 charge will be applied for unpaid balances.

DEDHAM
100 ALLIED DRIVE
DEDHAM, MA 02026-
(781)329-1750

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INVOICE NO
Remit to: Cummins Northeast LLC PO Box 845326 Boston, MA 02284

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BLAINE KELLY X5 - 902 875-2600

PAGE 4 OF 6

*** 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.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL		
		08-JUL-2013			PROSTAR		
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.		
	HB061		667300		25105		
QUANTITY ORDERED	BACK ORDERED	QUANTITY SHIPPED	PART NUMBER	DESCRIPTION	PRODUCT CODE	UNIT PRICE	AMOUNT

OSN/MSN/VIN XXXXXXXXXXXXXXX

- BOTH BELTS REPLACED BECAUSE THEY WERE IN VERY POOR CONDITION
- BOTH VALVE ROCKER SHAFTS REPLACED DUE TO WORN ENGINE BRAKE DETENT POCKETS
- REPLACED LEAKING WATER FILTER.

1		1	4298626	CAMSHAFT	CECO	1,448.68	1,448.68 *
1		1	4966487	CORE,COOLER	CECO	310.62	310.62 *
1		1	2882570	SHAFT,ROCKER LEVER	CECO	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	3,379.28	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	4921699	SENSOR,POSITION	CECO	35.84	35.84 *
1		1	4954888PX	INJECTOR,HD/HPI	DRC	690.59	690.59 *
1		1	4062567D	INJ, HD-HPI NOVOS 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	FLG	27.26	27.26
40		40	81807-10	11.41" LENGTH TIES	OTHER	.43	17.20 *
1		1	06084	BRAKLEEN	OTHER	2.79	2.79 *

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AUTHORIZED BY (print name)

SIGNATURE

DATE

DEDHAM
 100 ALLIED DRIVE
 DEDHAM, MA 02026-
 (781)328-1750

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Remit to: Cummins Northeast LLC PO Box 845328 Boston, MA 02264

BILL TO

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PAGE 5 OF 6

*** CASH ***

DATE	CUSTOMER ORDER NO.	DATE IN SERVICE	ENGINE MODEL	PUMP NO.	EQUIPMENT MAKE
19-JUL-2013	COD	12-AUG-2010	ISX 486		INTERNATIONAL
CUSTOMER NO.	SHIP VIA	FAIL DATE	ENGINE SERIAL NO.	CPL NO.	EQUIPMENT MODEL
		08-JUL-2013			PROSTAR
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
	HB061		667300		25105

QUANTITY ORDERED	BACK ORDERED	QUANTITY SHIPPED	PART NUMBER	DESCRIPTION	PRODUCT CODE	UNIT PRICE	AMOUNT
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OSN/MSN/VIN	XXXXXXXXXXXXX						
1	1 4955592	SET,LUB OIL COOLER GASKET	CECO			81.44	81.44 *
2	2 4973532	GASKET,OIL COOLER CORE	CECO			7.15	14.30 *
5	5 3683814	SEAL,O RING	CECO			2.11	10.55 *
1	1 3684338	GASKET,CONNECTION	CECO			18.67	18.67 *
1	1 4069172	SEAL,O RING	CECO			7.37	7.37 *
1	1 LF9080	PAC, LF	FLG			38.93	38.93 *
1	1 90368A	5" STAINLE	NGP			16.75	16.75 *
2	2 3683637	GASKET,EXH GAS RCN VALVE	CECO			10.22	20.44 *
1	1 3683607	SEAL,MOLDED	CECO			3.58	3.58 *
1	1 3817452C1	BELT	OTHER			76.21	76.21 *
1	1 3585412C1	BELT	OTHER			22.78	22.78 *
2	2 3922850	CLAMP,HOSE	CECO			9.99	19.98 *
2	2 S1077	SEAL,GROMMET	CECO			5.21	10.42 *
6	6 3681221	SCREW,HEX FLANGE HEAD CAP	CECO			6.66	39.96 *
13	13 VV705290	PREM BLUE GA BULK 16W40	VALVOLINE			12.64	163.02 *
2	2 2871453	GASKET,ADAPTER	CECO			19.98	39.92 *
1	1 3684355	GASKET,EXH OUT CONNECTION	CECO			12.38	12.38 *
1	1 3684359	GASKET,EXH OUT CONNECTION	CECO			10.22	10.22 *
1	1 3926704	CLAMP,SPRING HOSE	CECO			16.28	16.28 *
1	1 5297890NX	MODULE,PARTICULATE FILTER	DRC			2,483.36	2,483.36 *
1	1 4985129D	MODULE, PARTICULATE FILTE	CLEAN			833.75	833.75 *

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Jul. 22, 2013, 12:37PM

Northeast LLC

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DEDHAM
100 ALLIED DRIVE
DEDHAM, MA 02028-
(781)329-1750

REPRINT

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[REDACTED]	
Remit to: Cummins Northeast LLC PO Box 845328 Boston, MA 02284	

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PAGE 6 OF 6

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[REDACTED]		08-JUL-2013	[REDACTED]		PROSTAR
REF. NO.	SALESPERSON	PARTS DISP.	MILEAGE/HOURS	PUMP CODE	UNIT NO.
[REDACTED]	HB061		667300		25105

QUANTITY ORDERED	BACK ORDERED	QUANTITY SHIPPED	PART NUMBER	DESCRIPTION	PRODUCT CODE	UNIT PRICE	AMOUNT
OBN/MSN/VIN		XXXXXXXXXXXXX					
-1		-1	4985129D	MODULE, PARTICULATE FILTE	DIRTY	833.75	833.75
1		1	2871863	CLAMP,V BAND	CECO	59.74	59.74 *
1		1	3886396	6.2 CALIBRATION FLT REG.	CECO	55.55	55.55 *
1		1	3676756	SEAL,O RING	CECO	7.36	7.36 *

PARTS:	10,751.79
PARTS COVERAGE CREDIT:	10,176.23CR
TOTAL PARTS:	575.56
SURCHARGE TOTAL:	0.00
LABOR:	5,497.00
LABOR COVERAGE CREDIT:	5,382.00CR
TOTAL LABOR:	115.00
MISC.:	250.00
MISC. COVERAGE CREDIT:	0.00CR
TOTAL MISC.:	250.00
WAR/DEDHAM/DEDUCT/ONLY	250.00

WARRANTIES APPLIED: ONE FREE CUST SERV
FACTORY
POLICY

STATE 36.97

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SUB TOTAL:	840.56
TOTAL TAX:	35.97
TOTAL AMOUNT: US \$	876.53

AUTHORIZED BY (print name) _____ SIGNATURE _____ DATE _____