California Environmental Protection Agency AIR RESOURCES BOARD	CNH UK LIMITED	EXECUTIVE ORDER U-R-008-0109 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2011	BNHXL06.7DCC	6.7	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, and Engine Control Module	Tractor, Dozer, Generator Set, and Other Industrial Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.5	1.0	0.22	10	2	16

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 26 day of October 2010.

Annette Hebert

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

U-IC-008-0107
Attachment
10/13/2010

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
BNHXL06.7DCC	N/A	F4DE9687E*J/ F4HE9687E*J	165 @ 2200	83	N/A	551 @ 1400	110	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDB	F4HE9684R*J	169 @ 2000	93	N/A	538 @ 1400	108	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDJ	F4HE9684K*J/ F4DE9684K*J	130 @ 2200	68	N/A	434 @ 1400	90	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDD	F4DE9687X*J	150 @ 2200	82.3	N/A	457 @ 1600	93.1	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDF	F4DE9684R*J	140 @ 2200	77.4	N/A	424 @ 1600	88.2	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDG	F4DE9684Z*J	139 @ 2200	77.4	N/A	474 @ 1400	100	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDH	F4DE9684U*J	155 @ 2200	85.3	N/A	509 @ 1400	104.9	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDK	F4DE9684F*J	125 @ 2200	70.6	N/A	437 @ 1400	90.2	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDL	F4DE9684G*J	115 @ 2200	66.6	N/A	400 @ 1400	84.3	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDN	F4DE9687R*J	140 @ 2200	77.4	N/A	452 @ 1400	93.1	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	N/A	F4HE9684X*J/ F4DE9684X*J	150 @ 2200	77	N/A	502 @ 1400	101	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDT	F4HE9687H*J	162 @ 2000	89	N/A	538 @ 1500	107	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDE	F4HE9684T*J	139 @ 2100	77	N/A	465 @ 1400	94	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDH	F4HE9684U*J	156 @ 2200	85.3	N/A	509 @ 1400	104.9	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDU	F4HE9687Z*J	149 @ 2100	80	N/A	474 @1400	98	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDV	F4HE9687F*J	161 @ 2100	87	N/A	516 @ 1400	108	N/A	ECM. DDI. TC. CAC.
BNHXL06.7DCC	667TA/EDX	F4HE9687L*J	173 @ 2100	98	N/A	524 @ 1400	109	N/A	ECM. DDI. TC. CAC.