

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)
2008	8H3XL1.49N3T	1.496	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection, Turbocharger			Loader, Tractor and 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
19 ≤ kW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT	--	--	4.9	0.9	0.11	5	2	11

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 21 day of December 2007.



Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Template

ATTACHMENT 1 OF 1

WR-026-0205

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesels 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
8H3XL1.49N3T	403D-15T	GL31/2200	31.0@2200	36.4+/-1.9	13.2+/-0.7	82.5@1800	38.8+/-2.2	11.5+/-0.7	IFI,TC
8H3XL1.49N3T	403D-15T	GL34/2400	33.8@2400	36.9+/-1.9	14.6+/-0.8	82.5@1800	38.8+/-2.2	11.5+/-0.7	IFI,TC
8H3XL1.49N3T	403D-15T	GL37/2600	36.6@2600	38.0+/-2.0	16.3+/-0.9	82.5@1800	38.8+/-2.2	11.5+/-0.7	IFI,TC
8H3XL1.49N3T	403D-15T	GL39/2800	39.4@2800	39.0+/-2.2	18.0+/-1.0	82.5@1800	38.8+/-2.2	11.5+/-0.7	IFI,TC
8H3XL1.49N3T	403D-15T	GL40/3000	40.2@3000	38.1+/-2.3	18.8+/-1.1	82.5@1800	38.8+/-2.2	11.5+/-0.7	IFI,TC
8H3XL1.49N3T	C1.5	GL31/2200	31.0@2200	36.4+/-1.9	13.2+/-0.7	82.5@1800	38.8+/-2.2	11.5+/-0.7	IFI,TC
8H3XL1.49N3T	C1.5	GL34/2400	33.8@2400	36.9+/-1.9	14.6+/-0.8	82.5@1800	38.8+/-2.2	11.5+/-0.7	IFI,TC
8H3XL1.49N3T	C1.5	GL37/2600	36.6@2600	38.0+/-2.0	16.3+/-0.9	82.5@1800	38.8+/-2.2	11.5+/-0.7	IFI,TC
8H3XL1.49N3T	C1.5	GL39/2800	39.4@2800	39.0+/-2.2	18.0+/-1.0	82.5@1800	38.8+/-2.2	11.5+/-0.7	IFI,TC
8H3XL1.49N3T	C1.5	GL40/3000	40.2@3000	38.1+/-2.3	18.8+/-1.1	82.5@1800	38.8+/-2.2	11.5+/-0.7	IFI,TC
8H3XL1.49N3T	S3L3	32/2500-Y3T11	32.0@2500	33.7+/-1.6	13.9+/-0.7	74.5@1600	35.7+/-2.0	9.4+/-0.5	IFI,TC
8H3XL1.49N3T	S3L3	S3L3-Z3T11R	35.0@2500	37.2+/-2.6	15.3+/-1.1	78.2@1600	36.0+/-2.2	9.5+/-0.6	IFI,TC