



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)
2009	9YDXL3.32M4N	3.319	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Electronic Control Module Exhaust Gas Recirculation			Crane, Loader, Tractor, Excavator, Dozer, Pump, Compressor	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbons (HC), oxides of nitrogen (NO_x), or non-methane hydrocarbons plus oxides of nitrogen (NMHC+NO_x), 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	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT	--	--	4.4	1.5	0.16	1	1	1

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 17 day of December 2008.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

APPROVED
2010-01-22 & 0431

Engine Family	1 Engine Code	2 Engine Model	3 BHP@RPM (SAE Gross)	4 Fuel Rate mm ³ /stroke @ peak HP (for diesel only)	5 Fuel Rate (bhp/HP @ peak HP (for diesels only)	6 Torque @ RPM (SAE Gross)	7 Fuel Rate mm ³ /stroke@peak torque	8 Fuel Rate (bhp/HP@peak torque) Per SAE J1930	9 Emission Control
3000L3-32B4N	N/A	4TNV68-ZDM1	71.1/2500	49.4	27.2	179.2/1600	56.5	19.9	EMGR DI EGR
3000L3-32B4N	N/A	3TNVA	70.9/2500	48.8	26.9	176.1/1600	55.2	18.8	EM EGR DI
3000L3-32B4N	N/A	3TNFA	60.7/2400	47.9	25.3	177.0/1550	53.4	18.2	EM EGR DI
3000L3-32B4N	N/A	3TNQA	66.1/2300	47.1	23.9	177.6/1500	53.5	17.7	EM EGR DI
3000L3-32B4N	N/A	3TN5A	63.6/2200	48.6	23.5	178.6/1400	55.1	17.0	EM EGR DI
3000L3-32B4N	N/A	3TNVA	61.1/2100	47.9	22.2	178.7/1350	55.1	16.4	EM EGR DI
3000L3-32B4N	N/A	3TNWA	56.4/2000	48.2	21.2	178.7/1300	55.1	15.8	EM EGR DI
3000L3-32B4N	N/A	3TNXC	60.0/2500	40.8	22.5	148.2/1600	45.3	16.0	EM EGR DI
3000L3-32B4N	N/A	3TNPC	58.0/2400	40.5	21.4	149.4/1550	45.1	15.4	EM EGR DI
3000L3-32B4N	N/A	3TNCC	55.4/2300	40.0	20.3	148.8/1500	45.0	14.9	EM EGR DI
3000L3-32B4N	N/A	3TN5C	53.3/2200	39.7	19.3	149.7/1400	45.3	14.0	EM EGR DI
3000L3-32B4N	N/A	3TNVC	51.3/2100	40.3	18.7	151.0/1350	45.3	13.5	EM EGR DI