



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	9YDXL0.57V2N	0.570	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection			Crane, Loader, Tractor, Dozer, Pump, Compressor, Excavator	

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
kW < 19	Tier 4	OPTIONAL STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT	--	--	5.4	1.0	0.14	4	4	5

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for 2008 and Later Tier 4 Off-Road Compression-Ignition Engines, Part I-C" adopted October 20, 2005.

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 5 day of December 2008.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

ATTACHMENT #1 OF 2
 604-V-6-028-0414

Engine Family	1 Engine Code	2 Engine Model	3 BHP@RPM (SAE Gross)	4 Fuel Rate mm3/stroke @ peak HP (for design only)	5 Fuel Rate mm3/stroke @ peak HP (for design only)	6 Torque @ RPM (SEA Gross)	7 Fuel Rate mm3/stroke@Peak torque	8 Fuel Rate mm3/stroke @ peak torque	9 Emission Control Per SAE J1336
YDAX1332H	NA	2TNV75VTH12	13.3/2000	18.5	6.1	25.4/1800	20.0	4.0	EM ID1
YDAX1332H	NA	2TNV70H4	14.1/2600	17.5	6.9	22.9/2600	17.2	4.9	EM ID1
YDAX1332H	NA	2TNV70E	13.5/2400	17.3	6.5	23.4/2400	17.6	4.7	EM ID1
YDAX1332H	NA	2TNV70C	13.1/2000	17.3	6.1	24.3/2400	18.1	4.8	EM ID1
YDAX1332H	NA	2TNV70D	12.7/2000	18.1	6.0	25.1/2000	18.5	4.1	EM ID1
YDAX1332H	NA	2TNV70J	12.3/2600	17.8	5.7	25.1/2000	18.5	4.1	EM ID1
YDAX1332H	NA	2TNV70K	11.8/2800	17.5	5.4	24.8/1800	18.7	3.7	EM ID1
YDAX1332H	NA	2TNV70L	11.3/2700	17.3	5.1	24.8/1800	18.6	3.7	EM ID1
YDAX1332H	NA	2TNV70M	10.9/2600	17.2	4.9	24.8/1800	18.6	3.7	EM ID1
YDAX1332H	NA	2TNV70N	10.5/2500	17.0	4.7	24.9/1800	18.9	3.7	EM ID1
YDAX1332H	NA	2TNV70F	10.1/2400	16.9	4.5	24.9/1800	18.9	3.7	EM ID1
YDAX1332H	NA	2TNV70G	9.7/2300	16.7	4.2	24.6/1600	17.9	3.2	EM ID1
YDAX1332H	NA	2TNV70S	9.1/2200	16.4	4.0	24.6/1600	17.9	3.2	EM ID1
YDAX1332H	NA	2TNV70Y	8.7/2100	16.5	3.8	24.4/1500	18.2	3.0	EM ID1
YDAX1332H	NA	2TNV70W	8.2/2000	16.6	3.7	24.4/1500	18.2	3.0	EM ID1
YDAX1332H	NA	2CA1A	14.1/2600	17.5	6.9	22.9/2600	17.2	4.9	EM ID1
YDAX1332H	NA	2CA1B	13.5/2400	17.3	6.5	23.4/2400	17.6	4.7	EM ID1
YDAX1332H	NA	2CA1C	13.1/2000	17.3	6.1	24.3/2400	18.1	4.8	EM ID1
YDAX1332H	NA	2CA1D	12.7/2000	18.1	6.0	25.1/2000	18.5	4.1	EM ID1
YDAX1332H	NA	2CA1K	11.8/2800	17.5	5.4	24.8/1800	18.7	3.7	EM ID1
YDAX1332H	NA	2CA1L	11.3/2700	17.3	5.1	24.8/1800	18.6	3.7	EM ID1
YDAX1332H	NA	2CA1M	10.9/2600	17.2	4.9	24.8/1800	18.6	3.7	EM ID1
YDAX1332H	NA	2CA1N	10.5/2500	17.0	4.7	24.9/1800	18.9	3.7	EM ID1
YDAX1332H	NA	2CA1P	10.1/2400	16.9	4.5	24.9/1800	18.9	3.7	EM ID1
YDAX1332H	NA	2CA1Q	9.7/2300	16.7	4.2	24.6/1600	17.9	3.2	EM ID1
YDAX1332H	NA	2CA1R	9.1/2200	16.4	4.0	24.6/1600	17.9	3.2	EM ID1

Engine Model Summary Template

ATM CHANGVT / 2 of 2
 804 U-X-02B-04H

Engine Family	1 Engine Code	2 Engine Model	3 BRP@RPM (SAE Gross)	4 Fuel Rate mm ³ /stroke @ peak HP (for diesel only)	5 Fuel Rate lb/hr @ peak HP (for aircraft only)	6 Torque @ RPM (SEA Gross)	7 Fuel Rate mm ³ /stroke@peak torque	8 Fuel Rate (lb/hr)@peak torque@peak torque@peak	9 Emission Control Per SEA 1150
ATM CHANGVT	N/A	2CA7-V	8.7/2100	18.5	3.8	24.4/1500	18.2	3.0	EM IDI
ATM CHANGVT	N/A	2CA7W	8.2/2000	18.6	3.7	24.4/1500	18.2	3.0	EM IDI
ATM CHANGVT	N/A	2D70E-5K	11.8/2800	17.5	5.4	24.8/1800	18.7	3.7	EM IDI
ATM CHANGVT	N/A	2D70E-5L	11.3/2700	17.3	5.1	24.8/1800	18.6	3.7	EM IDI
ATM CHANGVT	N/A	2D70E-5M	10.9/2600	17.2	4.9	24.8/1800	18.6	3.7	EM IDI
ATM CHANGVT	N/A	2D70E-5N	10.5/2500	17.0	4.7	24.8/1800	18.9	3.7	EM IDI
ATM CHANGVT	N/A	2D70E-5P	10.1/2400	16.9	4.5	24.8/1800	18.9	3.7	EM IDI
ATM CHANGVT	N/A	2D70E-5Q	9.7/2300	16.7	4.2	24.8/1800	17.9	3.2	EM IDI
ATM CHANGVT	N/A	2D70E-5S	9.1/2200	16.4	4.0	24.8/1800	17.9	3.2	EM IDI