

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)		
2007	7YDXL2.09K4N	2.091	Diesel	5000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection			Compressor, Refrigerator			

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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	EMISSION	EXHAUST (g/kw-hr)			OPACITY (%)					
POWER CLASS	STANDARD		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	20	15	50
		FEL					0.45			
		CERT			5.8	3.0	0.27	1	3	3

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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.

This Executive Order hereby cancels and replaces Executive Order U-R-028-0345 dated December 22, 2006.

Executed at El Monte, California on this ______

day of September 2007.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Template

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MIRCHMENT	1-840-820-8-C

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EM ()	EM	EM	ΨÜ
0.6	9.0	9.0	6.0
34.1	34.1	34.1	27.1
102.0/1200	102.0/1200	102.0/1200	87.4/1560
13.2	13.2	13.2	13.8
27.2	27.2	27.2	24.0
33.9/2200	33.9/2200	33.9/2200	35.0/2600
4TNV86TK-VM1	TK486V	TK486VB	TK486VH
N/A	N/A	N/A	N/A
7YDXL2.09K4N	7YDXL2.09K4N	7YDXL2.09K4N	7YDXL2.09K4N
	N/A 4TNV86TK-VM1 33.9/2200 27.2 13.2 102.0/1200 34.1 9.0	N/A 4TNV86TK-VM1 33.9/2200 27.2 13.2 102.0/1200 34.1 9.0 N/A TK486V 33.9/2200 27.2 13.2 102.0/1200 34.1 9.0	N/A 4TNV86TK-VM1 33.9/2200 27.2 13.2 102.0/1200 34.1 9.0 N/A TK486VB 33.9/2200 27.2 13.2 102.0/1200 34.1 9.0 N/A TK486VB 33.9/2200 27.2 13.2 102.0/1200 34.1 9.0