

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)
2013	DYDXL1.27NPA	1.267	Diesel	3,000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection			Crane, Loader, Dozer, Pump, Compressor, Excavator	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), 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):

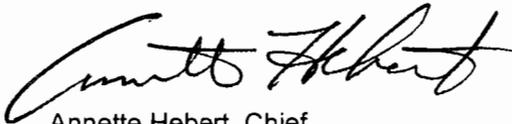
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT	--	--	5.6	1.4	0.13	1	1	1

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 14 day of June 2012.


 Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Template

ATTACHMENT

U-R-028-0590

10/14/13

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
DYDXL1.27NPA	N/A	4WNNPM	21.5/2500	23.3	12.8	51.5/1700	24.0	9.0	EM IFI
DYDXL1.27NPA	N/A	4WNCAM	24.1/3200	20.9	14.7	45.7/2000	21.8	9.6	EM IFI
DYDXL1.27NPA	N/A	4WNDAM	24.1/3000	21.9	14.5	45.9/1900	21.7	9.1	EM IFI
DYDXL1.27NPA	N/A	4WNKAM	22.8/2800	22.1	13.6	48.1/1900	23.7	9.9	EM IFI
DYDXL1.27NPA	N/A	4WNMAM	21.5/2600	22.2	12.7	48.1/1900	23.5	9.8	EM IFI
DYDXL1.27NPA	N/A	4WNNAM	20.1/2500	22.4	12.3	48.1/1900	23.9	10.0	EM IFI
DYDXL1.27NPA	N/A	4WNPAM	20.1/2400	21.6	11.4	48.1/1800	23.2	9.2	EM IFI
DYDXL1.27NPA	N/A	4WNSAM	17.4/2200	21.0	10.2	48.1/1600	23.4	8.3	EM IFI
DYDXL1.27NPA	N/A	4WNNFM	20.1/2500	21.5	11.8	48.1/1900	22.4	9.4	EM IFI