

Pursuant to the authority vested in California 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-14-012;

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)
2019	KYDXL1.27NPA	1.267	Diesel	3,000
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 non-methane hydrocarbon (NMHC), oxides of nitrogen (NO_x), or non-methane hydrocarbon 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):

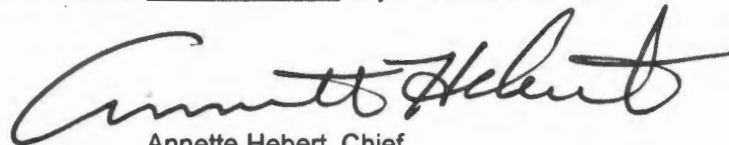
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT	--	--	5.6	1.5	0.13	1	1	1

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 5 day of October 2018.



Annette Hebert, Chief
 Emissions Compliance, Automotive Regulations and Science Division

Attachment 1 of 1

09/18/2018

U-R-028-0861

Engine Model Summary Template

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
KYDXL1.27NPA	N/A	4WNNPM	21.2/2500	23.3	9.6	51.5/1700	24.0	6.7	EM IFI
KYDXL1.27NPA	N/A	4WNCAM	23.9/3200	20.9	11.1	45.7/2000	21.8	7.2	EM IFI
KYDXL1.27NPA	N/A	4WNDAM	23.9/3000	21.9	10.9	45.7/1900	21.7	6.8	EM IFI
KYDXL1.27NPA	N/A	4WNCAM	22.8/2800	21.5	9.9	48.1/1900	23.1	7.3	EM IFI
KYDXL1.27NPA	N/A	4WNNMAM	21.2/2600	22.2	9.5	48.1/1900	23.5	7.4	EM IFI
KYDXL1.27NPA	N/A	4WNNAM	20.4/2500	22.4	9.3	48.1/1900	23.4	7.3	EM IFI
KYDXL1.27NPA	N/A	4WNPAM	19.6/2400	21.6	8.6	48.1/1800	23.2	6.9	EM IFI
KYDXL1.27NPA	N/A	4WNSAM	18.0/2200	21.0	7.6	48.1/1600	23.4	6.2	EM IFI
KYDXL1.27NPA	N/A	4WNNFM	20.4/2500	22.4	9.3	48.1/1900	23.4	7.3	EM IFI
KYDXL1.27NPA	N/A	4WNDAP	23.9/3000	21.9	10.9	45.7/1900	21.7	6.8	EM IFI
KYDXL1.27NPA	N/A	4WNDXM	24.7/3000	22.2	11.0	48.7/2100	23.0	8.0	EM IFI

* Engine Tested