

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-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)
2015	FKHXL.442155	0.442	Diesel	3000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Mechanical Direct Injection, Exhaust Gas Recirculation			Pump, Compressor, and Generator Set	

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 (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
kW < 8	Tier 4 Final	STD	N/A	N/A	7.5	8.0	0.60	N/A	N/A	N/A
		CERT	--	--	6.9	4.4	0.46	--	--	--

BE IT FURTHER RESOLVED: That certification to the standards in 13 CCR 2423(b)(1)(A) -Table 1b listed above has been permitted pursuant to Endnote 2 of the same table.

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 14th day of November 2014.

M. Hebert
FOR Annette Hebert, Chief
 Emissions Compliance, Automotive Regulations and Science Division

Attachment 1/1

Engine Model Summary Template

U-R-060-0028
10-21-2014

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM(SAE Gross)	5.Fuel Rate:		6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@pea k torque	9.Emission Control Device Per SAE J1930
				4. Fuel Rate: (lbs/hr) @ peak mm/stroke @ peak HP	HP				
FKHXL.442155	NA	15LD440/D	9.4 @ 3600	19.0	3.8	13.3 @ 3600	19.0	3.8	DDI, EGR, EM
FKHXL.442155	NA	15LD440	8.0 @ 2750	19.0	2.9	14.1 @ 2750	19.0	2.9	DDI, EGR
FKHXL.442155	NA	15LD440/DGE	9.4 @ 3600	19.0	3.8	13.3 @ 3600	19.0	3.8	DDI, EGR
FKHXL.442155	NA	15 LD 440/B1	8.0 @ 3000	19.5	3.2	14.5 @ 3000	19.5	3.2	DDI, EGR
FKHXL.442155	NA	<D440(2750 RPM	8.0 @ 2750	19.0	2.9	14.1 @ 2750	19.0	2.9	DDI, EGR
FKHXL.442155	NA	<D440(3000 RPM	8.0 @ 3000	19.5	3.2	14.5 @ 3000	19.5	3.2	DDI, EGR
FKHXL.442155	NA	KD420	9.4 @ 3600	19.0	3.8	13.3 @ 3600	19.0	3.8	DDI, EGR
FKHXL.442155	NA	KD420GE	9.4 @ 3600	19.0	3.8	13.3 @ 3600	19.0	3.8	DDI, EGR