

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)
2017	HFPXL08.7T4V	8.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Diesel Oxidation Catalyst, Selective Catalytic Reduction - Urea, Ammonia Oxidation Catalyst			Loader, Tractor, Generator Set, and Other Industrial Equipment	

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 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
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		FEL	N/A	0.25	N/A	N/A	N/A	N/A	N/A	N/A
		CERT	0.02	0.22	--	0.04	0.01	--	--	--

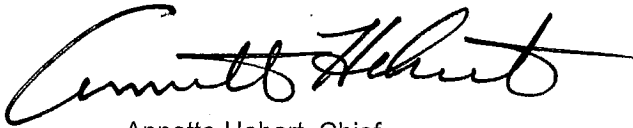
BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any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

Executed at El Monte, California on this 6 day of December 2016.



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

U-R-015-0329

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11/18/2016

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
HFPXL08.7T4V	F2CFE614A*B	F2CFE614A*B	409 @ 2000	200	N/A	1370 @ 1400	248	N/A	DDI ECM TC CAC DOC SCR-u AMOX
HFPXL08.7T4V	F2CFE614B*B	F2CFE614B*B	410 @ 2100	203	N/A	1321 @ 1400	240	N/A	DDI ECM TC CAC DOC SCR-u AMOX
HFPXL08.7T4V	F2CFE614C*B	F2CFE614C*B	370 @ 2000	182	N/A	1333 @ 1400	243	N/A	DDI ECM TC CAC DOC SCR-u AMOX
HFPXL08.7T4V	F2CFE614D*B	F2CFE614D*B	342 @ 2000	165	N/A	1265 @ 1400	231	N/A	DDI ECM TC CAC DOC SCR-u AMOX
HFPXL08.7T4V	F2CFE614E*B	F2CFE614E*B	340 @ 2100	153	N/A	1186 @ 1400	216	N/A	DDI ECM TC CAC DOC SCR-u AMOX
HFPXL08.7T4V	F2CFE614F*B	F2CFE614F*B	315 @ 2100	143	N/A	1188 @ 1400	219	N/A	DDI ECM TC CAC DOC SCR-u AMOX
HFPXL08.7T4V	F2CFE614G*B	F2CFE614G*B	311 @ 2000	147	N/A	1154 @ 1400	211	N/A	DDI ECM TC CAC DOC SCR-u AMOX
HFPXL08.7T4V	F2CFE614H*B	F2CFE614H*B	289 @ 2100	131	N/A	1096 @ 1400	201	N/A	DDI ECM TC CAC DOC SCR-u AMOX