



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	KFPXL08.7T4W	8.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Engine Control Module, Turbocharger, Charge Air Cooler, 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	0.29	N/A	N/A	N/A	N/A	N/A	N/A
		CERT	0.000	0.26	--	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 28TH day of November 2018.

Annette Hebert
Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Template

Eo# U-R-015-0392

Attachment: Pg 1/1

Date: 11/2/18

4.Fuel Rate:

5.Fuel Rate:

7.Fuel Rate:

8.Fuel Rate:

9.Emission Control

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
KFPXL08.7T4W	F2CFE613A*B	F2CFE613A*B	409 @ 2100	199	N/A	1333 @ 1500	248	N/A	DDI ECM TC CAC DOC SCR-U AMOX
KFPXL08.7T4W	F2CFE613D*B	F2CFE613D*B	335 @ 2200	156	N/A	1148 @ 1500	211	N/A	DDI ECM TC CAC DOC SCR-U AMOX
KFPXL08.7T4W	F2CFE613B*B	F2CFE613B*B	382 @ 2100	188	N/A	1241 @ 1500	224	N/A	DDI ECM TC CAC DOC SCR-U AMOX
KFPXL08.7T4W	F2CFE613C*B	F2CFE613C*B	355 @ 2100	175	N/A	1200 @ 1500	217	N/A	DDI ECM TC CAC DOC SCR-U AMOX
KFPXL08.7T4W	F2CFE613E*B	F2CFE613E*B	328 @ 2100	155	N/A	1119 @ 1500	212	N/A	DDI ECM TC CAC DOC SCR-U AMOX
KFPXL08.7T4W	F2CFE613F*B	F2CFE613F*B	302 @ 2100	140	N/A	1000 @ 1500	191	N/A	DDI ECM TC CAC DOC SCR-U AMOX
KFPXL08.7T4W	F2CFE613G*B	F2CFE613G*B	281 @ 2000	143	N/A	1042 @ 1500	198	N/A	DDI ECM TC CAC DOC SCR-U AMOX
KFPXL08.7T4W	F2CFE613J*B	F2CFE613J*B	390 @ 2200	168	N/A	1263 @ 1500	225	N/A	DDI ECM TC CAC DOC SCR-U AMOX
KFPXL08.7T4W	F2CFE615D*B	F2CFE615D*B	348 @ 1800	198	N/A	1022 @ 1800	198	N/A	DDI ECM TC CAC DOC SCR-U AMOX
KFPXL08.7T4W	F2CFE615C*B	F2CFE615C*B	378 @ 1800	213	N/A	1108 @ 1800	213	N/A	DDI ECM TC CAC DOC SCR-U AMOX
KFPXL08.7T4W	F2CFE615B*B	F2CFE615B*B	414 @ 1800	236	N/A	1215 @ 1800	236	N/A	DDI ECM TC CAC DOC SCR-U AMOX
KFPXL08.7T4W	F2CFE615A*B	F2CFE615A*B	442 @ 1800	253	N/A	1296 @ 1800	253	N/A	DDI ECM TC CAC DOC SCR-U AMOX