California Environmental Protection Agency Air Resources Board	FPT INDUSTRIAL S.p.A.	EXECUTIVE ORDER U-R-015-0279-1 New Off-Road Compression-Ignition Engines

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	FFPXL12.9TSS	12.9	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, 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 (%)		
			HC	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	0.23	N/A	N/A	N/A	N/A	N/A	N/A
		CERT	0.002	0.13	--	0.04	0.02	--	--	--

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.

This Executive Order hereby supersedes Executive Order U-R-015-0279 dated May 15, 2014.

Executed at El Monte, California on this 4 day of March 2015.

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

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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
FFPXL12.9TSS	F3HFE613B*B	F3HFE613B*B	545 @ 2100	270	N/A	1779 @ 1400	325	N/A	DDI ECM TC CAC DOC SCR-u AMOX
FFPXL12.9TSS	F3HFE613A*B	F3HFE613A*B	563 @ 2100	277	N/A	1741 @ 1500	323	N/A	DDI ECM TC CAC DOC SCR-u AMOX
FFPXL12.9TSS	F3HFE613C*B	F3HFE613C*B	523@ 2100	256	N/A	1741 @ 1500	322	N/A	DDI ECM TC CAC DOC SCR-u AMOX
FFPXL12.9TSS	F3HFE613D*B	F3HFE613D*B	515 @ 2100	254	N/A	1673 @1400	310	N/A	DDI ECM TC CAC DOC SCR-u AMOX
FFPXL12.9TSS	F3HFE613F*B	F3HFE613F*B	496 @ 2100	244	N/A	1716 @ 1500	318	N/A	DDI ECM TC CAC DOC SCR-u AMOX
FFPXL12.9TSS	F3HFE613G*B	F3HFE613G*B	464 @ 2100	232	N/A	1490 @ 1400	272	N/A	DDI ECM TC CAC DOC SCR-u AMOX
FFPXL12.9TSS	F3HFE613H*B	F3HFE613H*B	429 @ 2100	215	N/A	1484 @ 1500	274	N/A	DDI ECM TC CAC DOC SCR-u AMOX