California Environmental Protection Agency AIR RESOURCES BOARD	FPT INDUSTRIAL S.p.A.	EXECUTIVE ORDER U-R-015-0234 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-02-003;

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)
2012	CFPXL08.7TR4	8.7	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Engine Control Module, and Selective Catalytic Reduction-Urea	Loader, Tractor, and other Industrial Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), 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	Interim Tier 4 Alt NOx	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.01	1.5	--	0.4	0.01	--	--	--

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 28 day of October 2011.

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

U-R-015-0254
Attachment
9/27/2011

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
CFPXL08.7TR4	F2CFE613A*A	F2CFE613A*A	402 @ 2100	195	N/A	1328 @ 1500	255	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613C*A	F2CFE613C*A	370 @ 2000	184	N/A	1232 @ 1500	229	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613E*A	F2CFE613E*A	355 @ 2100	172	N/A	1196 @ 1500	220	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613F*A	F2CFE613F*A	338 @ 2000	176	N/A	1129 @ 1500	211	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613H*A	F2CFE613H*A	322 @ 2100	160	N/A	1084 @ 1500	200	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613J*A	F2CFE613J*A	315 @ 2000	160	N/A	1030 @ 1500	192	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613L*A	F2CFE613L*A	295 @ 2100	147	N/A	996 @ 1500	187	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613M*A	F2CFE613M*A	303 @ 2000	156	N/A	1091 @ 1400	208	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613N*A	F2CFE613N*A	289 @ 2000	146	N/A	934 @ 1500	173	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613P*A	F2CFE613P*A	267 @ 2000	137	N/A	853 @ 1500	160	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613R*A	F2CFE613R*A	326 @ 2200	155	N/A	1084 @ 1500	200	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613B*A	F2CFE613B*A	395 @ 2150	186	N/A	1215 @ 1600	225	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613D*A	F2CFE613D*A	360 @ 2150	169	N/A	1139 @ 1600	210	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613G*A	F2CFE613G*A	328 @ 2150	156	N/A	1064 @ 1600	198	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613K*A	F2CFE613K*A	299 @ 2150	145	N/A	966 @ 1600	179	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613S*A	F2CFE613S*A	382 @ 2100	180	N/A	1224 @ 1500	223	N/A	DID, ECM, TC, CAC, SCR
CFPXL08.7TR4	F2CFE613T*A	F2CFE613T*A	355 @ 2100	175	N/A	1143 @ 1500	214	N/A	DID, ECM, TC, CAC, SCR

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