FPT INDUSTRIAL S.p.A.

EXECUTIVE ORDER U-R-015-0318-1 New Off-Road Compression-Ignition Engines Page 1 of 2 Pages

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) | | | |
|-------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|------------------------|--|--|--|
| 2016 | GFPXL03.4ESD | 3.4 | Diesel | 8000 | | | |
| | FEATURES & EMISSION | | TYPICAL EQUIPMENT APPLICATION | | | | |
| Cooler Recircu | ic Direct Injection, Turboo , Electronic Control Mod llation, Diesel Oxidation (c Reduction - Urea, and A | ule, Exhaust Ğas Catalyst, Selective | 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 | EMISSION STANDARD | | EXHAUST (g/kw-hr) | | | | | OPACITY (%) | | |
|----------------|-------------------|------|-------------------|------|----------|-----|------|-------------|-----|------|
| CLASS | CATEGORY | | NMHC | NOx | NMHC+NOx | co | PM | ACCEL | LUG | PEAK |
| 56 ≤ kW < 130 | Tier 4 Final | STD | 0.19 | 0.40 | N/A | 5.0 | 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 | 0.002 | 0.18 | | 0.2 | 0.02 | | | |

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for New 2011 and Later Tier 4 Off-Road Compression-Ignition Engines, Parts I-D" adopted October 20, 2005 and last amended October 25, 2012.

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).

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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-015-0318 dated September 29, 2015.

Executed at El Monte, California on this ___

__ day of September 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

U-12-015-0318-1

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9/15/2016

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 |
| GFPXL03,4ESD | F5GFL413E*B | F5GFL413E*B | 115 @ 2200 | 87 | N/A | 374@ 1500 | 115 | N/A | DDI ECM TC CAC DOC SCR-u AMOX EGR. |
| GFPXL03.4ESD | F5BFL413F*B | F5BFL413F*B | 96 @ 2000 | 79 | N/A | 305 @ 1400 | 93 | N/A | DDI ECM TC CAC DOC SCR-u AMOX EGR. |
| GFPXL03.4ESD | F5BFL413D*B | F5BFL413D*B | 114 @ 2500 | 80 | N/A | 340 @ 1400 | 103 | N/A | DDI ECM TC CAC DOC SCR-u AMOX EGR. |
| GFPXL03.4ESD | F5BFL413E*B | F5BFL413E*B | 90 @ 2500 | 65 | N/A | 283 @ 1400 | 85 | N/A | DDI ECM TO CAC DOG SCR-u AMOX EGR, |
| GFPXL03.4ESD | F5BFL413A*B | F5BFL413A*B | 110 @ 2200 | 86 | N/A | 340 @ 1400 | 103 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR. |
| GFPXL03.4ESD | F5BFL413B*B | F5BFL413B*B | 96 @ 2200 | 75 | N/A | 335 @ 1400 | 101 | Ņ/A | DDI ECM TC CAC DOC SCR-u AMOX EGR, |
| GFPXL03.4ESD | F5BFL413C*B | F5BFL413C*B | 90 @ 2200 | 70 | N/A | 307 @ 1300 | 94 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR, |
| GFPXL03.4ESD | F5GFL413D*B | F5GFL413D*B | 84 @ 2300 | 64 | N/A | 271 @ 1500 | 81 | N/A | DDI ECM TC CAC DOC SCR-u AMOX EGR, |
| GFPXL03.4ESD | F5GFL413A*B | F5GFL413A*B | 115 @ 2300 | 85 | N/A | 360 @ 1500 | 108 | N/A | DDI ECM TO CAC DOC SCR-U AMOX EGR. |
| GFPXL03.4ESD | F5GFL413B*B | F5GFL413B*B | 106 @ 2300 | 78 | N/A | 345 @ 1500 | 103 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR. |
| GFPXL03.4ESD | F5GFL413C*B | F5GFL413C*B | 98 @ 2300 | . 72 | N/A | 313 @ 1500 | 93 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR. |
| GFPXL03.4ESD | F5GFL413F*B | F5GFL413F*B | 106 @ 2300 | 78 | N/A | 341 @ 1500 | 102 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR. |
| GFPXL03.4ESD | F5GFL413G*B | F5GFL413G*B | 115 @ 2300 | 85 | N/A | 359 @ 1500 | 107 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR. |
| GFPXL03.4ESD | F5GFL413N*B | F5GFL413N*B | 123 @ 2300 | 91KW 91 | N/A | 370 @ 1500 | 113 | N/A | DDI ECM TC CAC DOC SCR-u AMOX EGR. |
| GFPXL03.4ESD | F5GFL413M*B | F5GFL413M*B | 82 @ 2300 | GIKW 62 | N/A | 247 @ 1500 | 72 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR. |
| GFPXL03.4ESD | F5GFL413L*B | F5GFL413L*B | 90 @ 2300 | 67 | N/A | 271 @ 1500 | 81 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR, |
| GFPXL03.4ESD | F5GFL413K*B | F5GFL413K*B | 95 @ 2300 | 70 | N/A | 271 @ 1500 | 81 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR. |
| GFPXL03.4ESD | F5GFL413J*B | F5GFL413J*B | 101 @ 2300 | 74 | N/A | 297 @ 1500 | 88 | N/A | DDI ECM TC CAC DOC SCR-u AMOX EGR, |
| GFPXL03.4ESD | F5GFL413H*B | F5GFL413H*B | 103 @ 2300 | 76 | N/A | 299 @ 1700 | 89 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR, |
| GFPXL03.4ESD | F5GFL413T*B | F5GFL413T*B | 98@2200 | 72 | N/A | 313 @ 1500 | 93 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR, |
| GFPXL03.4ESD | F5GFL413S*B | F5GFL413S*B | 101 @ 2200 | 76 | N/A | 319 @ 1400 | 95 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR, |
| GFPXL03.4ESD | F5GFL413R*B | F5GFL413R*B | 94 @ 2200 | 68 | N/A | 293 @ 1400 | 87 | N/A | DDI ECM TC CAC DOC SCR-u AMOX EGR, |
| GFPXL03.4ESD | F5GFL413P*B | F5GFL413P*B | 84 @ 2200 | 62 | N/A | 262 @ 1400 | 78 | N/A | DDI ECM TC CAC DOC SCR-u AMOX EGR. |
| GFPXL03.4ESD | F5GFL413U*B | F5GFL413U*B | 115 @ 2300 | 89 | N/A | 361 @ 1500 | 106 | N/A | DDI ECM TC CAC DOC SCR-u AMOX EGR, |
| GFPXL03,4ESD | F5GFL413V*B | F5GFL413V*B | 106 @ 2300 | 82 | N/A | 352 @ 1500 | 101 | N/A | DDI ECM TC CAC DOC SCR-u AMOX EGR. |
| GFPXL03,4ESD | F5GFL413W*B | F5GFL413W*B | 98 @ 2300 | 75 | N/A | 319 @ 1500 | 92 | N/A | DDI ECM TO CAC DOC SCR-u AMOX EGR. |
| • | | • | | | | | | | |