

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	GCPXL7.01HPF	7.01	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Diesel Oxidation Catalyst, Engine Control Module, Exhaust Gas Recirculation, Periodic Trap Oxidizer			Generator, Motorgrader, Feller Buncher	

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 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 (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final/ALT 5% NOx	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		FEL	N/A	2.00	--	N/A	N/A	N/A	N/A	N/A
		CERT	0.03	1.83	--	0.2	0.004	--	--	--

**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 10 day of December 2015.

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

ATTACHMENT 1 OF 1

Engine Model Summary Template

U-R-001-0522

10/29/2015

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
GCPXL7.01HPF	Cert Test 1	C7.1	302@2200	170	123	940@1400	198	91	DDI TC CAC ECM DOC PTOX EGR
GCPXL7.01HPF	Cert Test 2	C7.1	321@1800	195	118	NA	NA	NA	DDI TC CAC ECM DOC PTOX EGR
GCPXL7.01HPF	4462/1800	C7.1	247@1800	143	87	NA	NA	NA	DDI TC CAC ECM DOC PTOX EGR
GCPXL7.01HPF	4468/2100	C7.1	212@2100	118	83	763@1200	159	64	DDI TC CAC ECM DOC PTOX EGR
GCPXL7.01HPF	4472/2100	C7.1	192@2100	113	80	707@1000	150	51	DDI TC CAC ECM DOC PTOX EGR
GCPXL7.01HPF	4476/2100	C7.1	185@1800	115	70	627@1000	128	43	DDI TC CAC ECM DOC PTOX EGR
GCPXL7.01HPF	4478/1800	C7.1	204@1800	123	75	687@1000	142	48	DDI TC CAC ECM DOC PTOX EGR
GCPXL7.01HPF	4480/1800	C7.1	241@1800	144	87	791@1400	163	77	DDI TC CAC ECM DOC PTOX EGR
GCPXL7.01HPF	4464/1800	C7.1	321@1800	195	118	NA	NA	NA	DDI TC CAC ECM DOC PTOX EGR