

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 engine and emission control system 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	GMBXL12.8RJA	12.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Oxidation Catalyst, Exhaust Gas Recirculation, Selective Catalytic Reduction-Urea, Ammonia Oxidation Catalyst			Crane, Tractor, Dozer, Loader, Pump, Compressor	

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	STD	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
		CERT	0.000	0.33	--	0.4	0.02	--	--	--

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 24th day of December 2015.

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

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 diesel only)	6. Torque@RPM (SAE Gross)	7. Fuel Rate: (lbs/hr)@peak torque	8. Fuel Rate: mm/stroke@peak torque	9. Emission Control Device per SAE J1930
GMBXL12.8RJA	471LA.E4-1	OM471LA	390KW@1700	306.5	77.0 Kg/hr	2460Nm@1300	332.3	63.6 Kg/hr	DDI,TC, ECM, CAC, SCR, OC, EGR, AMOX
GMBXL12.8RJA	471LA.E4-3	OM471LA	360KW@1700	281.0	70.0 Kg/hr	2300Nm@1300	309.7	59.1 Kg/hr	DDI,TC, ECM, CAC, SCR, OC, EGR, AMOX
GMBXL12.8RJA	471LA.E4-4	OM471LA	340KW@1700	259.1	67.7 Kg/hr	2200Nm@1300	292.4	56.3 Kg/hr	DDI,TC, ECM, CAC, SCR, OC, EGR, AMOX
GMBXL12.8RJA	471LA.E4-5	OM471LA	320KW@1700	244.9	61.3 Kg/hr	2100Nm@1300	278.0	53.3 Kg/hr	DDI,TC, ECM, CAC, SCR, OC, EGR, AMOX
GMBXL12.8RJA	471LA.E4-6	OM471LA	380KW@1700	297.8	74.6 Kg/hr	2380Nm@1300	321.2	61.5 Kg/hr	DDI,TC, ECM, CAC, SCR, OC, EGR, AMOX

SUPERSEDED