

Pursuant to the authority vested in California 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)
2018	JMDDL76.3XTM	57.2, 76.3	Diesel	8,000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation			Crane, Loader, Tractor, Dozer, Pump, Compressor, Mine Haul Truck	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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):

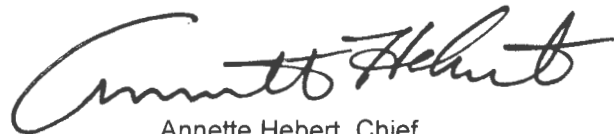
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
ELSE > 560 kW	Tier 4 Final	STD	0.19	3.5	N/A	3.5	0.04	N/A	N/A	N/A
		CERT	0.07	3.0	--	0.2	0.02	--	--	--

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 5 day of February 2018.



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

EO#: U-R-052-0035

Engine Model Summary Template

R/c

5/25/2018

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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
JMDDL76.3XTM	7266	12V4000C65	2500@1800	697		10409@1710	726		DFI, TC, CAC, ECM, EGR
JMDDL76.3XTM	7267	12V4000C65	2500@1900	673		9861@1805	695		DFI, TC, CAC, ECM, EGR
JMDDL76.3XTM	7268	12V4000C15	1542@1800	445		7351@1494	515		DFI, TC, CAC, ECM, EGR
JMDDL76.3XTM	7269	12V4000T95R	2253@1900	610		9035@1400	621		DFI, TC, CAC, ECM, EGR
JMDDL76.3XTM	7303	12V4000T95	2501@1900	670		10030@1400	686		DFI, TC, CAC, ECM, EGR
JMDDL76.3XTM	7302	12V4000T95L	2600@1900	701		10427@1400	713		DFI, TC, CAC, ECM, EGR
JMDDL76.3XTM	7304	12V4000C35	2012@1800	561		9588@1494	655		DFI, TC, CAC, ECM, EGR
JMDDL76.3XTM	7305	12V4000C55	2347@1900	632		9258@1805	633		DFI, TC, CAC, ECM, EGR
JMDDL76.3XTM	7312	**16V4000C65	3218@1800	676		13430@1710	708		DFI, TC, CAC, ECM, EGR
*JMDDL76.3XTM	7330	12V4000C25	1676@1800	474		7985@1492	549		DFI, TC, CAC, ECM, EGR
*JMDDL76.3XTM	7331	**16V4000T95	3004@1900	693		13385@1675	708		DFI, TC, CAC, ECM, EGR

* New ratings added for running change

** 76.3L displacement engine models. The rest have a displacement of 57.2L