

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)
2017	HMDDL57.2XTM	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	--	--	--

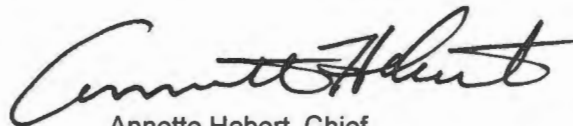
**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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.**

This Executive Order hereby supersedes Executive Order U-R-052-0032 dated May 3, 2017.

Executed at El Monte, California on this 28 day of December 2017.



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

## Engine Model Summary Template

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EO#: U-R-052-0032-1

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
HMDDL57.2XTM	7266	12V4000C65	2500@1800	710		10409@1710	743		DFI, TC, CAC, ECM, EGR
HMDDL57.2XTM	7267	12V4000C65	2500@1900	687		9861@1805	696		DFI, TC, CAC, ECM, EGR
HMDDL57.2XTM	7268	12V4000C15	1542@1800	452		7351@1494	523		DFI, TC, CAC, ECM, EGR
HMDDL57.2XTM	7269	12V4000T95R	2253@1900	620		9035@1400	634		DFI, TC, CAC, ECM, EGR
HMDDL57.2XTM	7303	12V4000T95	2501@1900	682		10030@1400	697		DFI, TC, CAC, ECM, EGR
HMDDL57.2XTM	7302	12V4000T95L	2600@1900	710		10427@1400	725		DFI, TC, CAC, ECM, EGR
HMDDL57.2XTM	* 7304	12V4000C35	2012@1800	567		9588@1494	665		DFI, TC, CAC, ECM, EGR
HMDDL57.2XTM	* 7305	12V4000C55	2347@1900	642		9258@1805	657		DFI, TC, CAC, ECM, EGR
HMDDL57.2XTM	* 7312	16V4000C65	3218@1800	686		13430@1710	719		DFI, TC, CAC, ECM, EGR

\* New ratings added for R/C