

 AIR RESOURCES BOARD	TOGNUM AMERICA INC.	EXECUTIVE ORDER U-R-052-0019
		New Off-Road Compression-Ignition Engines

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-02-003;

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)
2012	CMDDDL35.7XNC	35.7	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	

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	Interim Tier 4	STD	0.40	3.5	N/A	3.5	0.10	20	15	50
		CERT	0.18	3.0	--	0.4	0.07	3	1	7

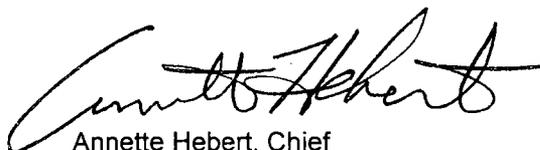
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

BE IT FURTHER RESOLVED: The listed engine family is conditionally certified pending submission of additional test data to verify compliance with useful-life emission standards. The manufacturer has until November 1, 2012 to provide test data to confirm or correct the certification emissions levels on this conditional certification. Failure to resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification would be deemed uncertified pursuant to Health and Safety Code Section 43153 and subject to civil penalties pursuant to Health and Safety Code Section 43154.

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 29 day of June 2012.


 Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Form

ATTACHMENT

U-R-052-0019

6/29/12

Manufacturer: **Tognum America Inc.**
 Engine category: **Engines above 560 kW, NOT gen sets**
 EPA Engine Family: **CMDDL35.7XNC**
 Mfr Family Name: **Series 2000-06**
 Process Code: **R**

1. Engine code	2. Engine Model	3. kW@RPM (ISO Gross)	4. Fuel Rate: mm ³ /stroke@peak kW (for diesel only)	5. Fuel Rate: (lbs/hr)@peak kW (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
7245	12V2000S56	783@2100	260	367	4640@1360	320	294	DFI, TC, CAC, ECM, EGR
7246	12V2000S96	858@2100	282	400	4910@1410	340	323	DFI, TC, CAC, ECM, EGR
7247	12V2000C66	783@2100	260	367	4640@1360	320	294	DFI, TC, CAC, ECM, EGR
7248	16V2000C66	970@2100	251	474	5285@1400	278	363	DFI, TC, CAC, ECM, EGR
7249	16V2000S96	1163@2100	296	559	6400@1300	338	440	DFI, TC, CAC, ECM, EGR
7250	16V2000S56	970@2100	251	474	5285@1400	278	363	DFI, TC, CAC, ECM, EGR
7251	12V2000C66R	783@1800	290	352	4640@1360	320	291	DFI, TC, CAC, ECM, EGR