EXECUTIVE ORDER U-R-067-0001 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-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	GMNBL12.4OR4	12.4	Diesel	8,000	
	FEATURES & EMISSION		TYPICAL EQUIPMENT A		
Char	ectronic Direct Injection, ge Air Cooler, Electronic Exhaust Gas Recirci Selective Catalytic Redu Ammonia Oxidation (Control Module, ulation, ction-Urea,	Loader, Tractor, Dozer, Bac	k Hoe, Harvester	

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	EMISSION STANDARD CATEGORY			1	EXHAUST (g/kW-hr)			OPACITY (%)		
POWER			NMHC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
100 - 1111 - 500	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
130 ≤ kW ≤ 560		CERT	0.11	0.35		0.3	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

_ day of September 2015.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Template

ATTACHMENT

U-R-067-0001 9/4/15

									,
Engine Family	1.Engine Code	2.Engine Model	3.DITIWKTW	4.Fuel Rate: mm/stroke @ peak H (for diesel only)	P 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 e Device Per SAE J1930
GMNBL12.4OR4	D2676	LE137	404 kW @ 1850	292	175.7	2520 NM @	342	150.1	ECM, DI, TC, CAC,
pe didded in atthermopie communication and property of a different to the communication of th	en ekwantijan aprine Andrija (n. 1904 in 1905). Lindrika sati Lungura kan Lungura (1. i. jan 1. in 1900). Lindrika sati Lungura (1. i. jan 1. in 1900). Lindrika sati Lungura (1. i. jan 1. in 1900). Lindrika sati Lungura (1. i. jan 1. i.	Prince de l'American de la communicació de la commu	RPM	очения и под тировородить на день дой, равила водо сум на наслодовативаем учен дового. 200	annamente en	1350 RPM	g Commonter com a generalizadem Company a magneticam Profession de Profession de Pr	ter er den kritik til general de vikte i de de de de vikte for de menget metersjense vikte de til de til de ti De ste er de ste forste de vikte de vikte i de de de ste en	EGR, SCR-U, AMOX
						A A			
GMNBL12.4OR4	D2676	LE131	383 kW @ 1950	266	169.1	2420 NM @	325	142.9	ECM, DI, TC, CAC,
			RPM			1350 RPM			EGR, SCR-U, AMOX
GMNBL12.40R4	D2676	LE521	383 kW @ 1950	266		0.400 NIM @	205	142.9	ECM, DI, TC, CAC,
OWNED 12.4014	DZOTO	LL VL I	RPM	200 Onese East (to representation of a construction of the second street and an administration accounts	169.1	2420 NM @ 1350 RPM	325	142.3 	EGR, SCR-U, AMOX
GMNBL12.4OR4	D2676	LE134	353 kW @ 1950	246	155.9	2305 NM @	307	130.1	ECM, DI, TC, CAC,
a.			RPM			1300 RPM			EGR, SCR-U, AMOX
GMNBL12.4OR4	D2676	LE522	353 kW @ 1950	246	155.9	2305 NM @	307	130.1	ECM, DI, TC, CAC, EGR, SCR-U, AMOX
			RPM	λ		1300 RPM			EGN, SCN-U, AIVIOX
GMNBL12.4OR4	D2676	LE135	323 kW @ 1950	225	142.9	2108 NM @	283	115.3	ECM, DI, TC, CAC,
METORY STEEL CONTROL OF THE CONTROL OF T	остов в СРАСТВО. Монекорого об'яван сталь (СССС), у Монекован повывания составления басты на Восто на		RPM	enterior transicio de enterior de la companya de l	and the second s	1250 RPM	errorenseerrorenseerroren (h. 1907)	Ministration (ministration of the control of the co	EGR, SCR-U, AMOX
GMNBL12.4OR4	D2676	LE523	323 kW @ 1950	225	142.9	2108 NM @	283	115.3	ECM, DI, TC, CAC,
			RPM			1250 RPM			EGR, SCR-U, AMOX
011111111111111111111111111111111111111	D0070	1 - 100	2041111 2 4050					1010	ECM, DI, TC, CAC,
GMNBL12.4OR4	D2676	LE136	294 kW @ 1950 RPM	208	131.8	1916 NM @	258	104.9	EGR, SCR-U, AMOX
			TXI IVI			1250 RPM	*		
GMNBL12.4OR4	D2676	LE524	294 kW @ 1950	208	131.8	1916 NM @	258	104.9	ECM, DI, TC, CAC,
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