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-19-095;

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)		
2021	MPKXL02.2IR1	2.22	Diesel	8000		
SPECIAL	FEATURES & EMISSION C	ONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Electron Cooler, En Period	ic Direct Injection, Turboc gine Control Module, Dies ic Trap Oxidizer, Exhaust	harger, Charge Air el Oxidation Catalyst, gas Recirculation	Welder, Mini-Excavator			

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		EXHAUST (g/kw-hr)					OPACITY (%)		
POWER CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT			3.5	1.3	0.003			

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 on this 16th

__ day of October 2020.

Allen Lyons, Chief Emissions Certification and Compliance Division

Engine Model Summary Template

Attachment page 1 of 1 EO#: U-R-022-0276 Date: 09/29/2020

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: ? (Ibs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque		9.Emission Control eDevice Per SAE J1930
MPKXL02.2IR1	5076/2800	404J-E22TA	74@2800	47.2	29.1	270@1600	58.7	20.7	DDI,TAA,ECM,DOC,PTOX,
	Parent	C2.2							EGR
MPKXL02.2IR1	6182/2800	404J-E22TA	60@2800	39.3	24.3	235@1600	49.9	17.6	DDI,TAA,ECM,DOC,PTOX,
		C2.2							EGR
MPKXL02.2IR1	6184/2800	404J-E22TA	67@2800	42.7	26.3	252@1600	53.6	18.9	DDI,TAA,ECM,DOC,PTOX,
		C2.2							EGR
									TAA = TC + CAC