

HYUNDAI DOOSAN INFRACORE CO., LTD.

EXECUTIVE ORDER U-L-078-0006-1 New Off-Road Large Spark-Ignition Engines Above 19 Kilowatts

Pursuant to the authority vested in California Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: That the following new large spark-ignition engines and emission control systems produced by the manufacturer are certified for use in off-road equipment as described below. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT FUEL TYPE (liters)					
2023	PDICB03.4PMA	3.4	LPG				
DURABILITY HOURS		AL FEATURES & TYPICAL EQUIPMENT USAGE CONTROL SYSTEMS					
5000	Heated	ay Catalytic Converter, Oxygen Sensors (2), seous Fuel Mixer Forklift and Other					
ENGINE MODELS (rated power in kilowatt, kW)			See Attachment				

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) exhaust certification emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2433(b)(1)) and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Engines within this engine family shall have closed crankcases in conformance with 13 CCR Section 2433(b)(3).

	HC+NOx (g/kW-hr)	CO (g/kW-hr)		
EXHAUST STANDARD	0.8	20.6		
CERTIFICATION LEVEL	0.2	1.6		

The following is the evaporative hydrocarbon emission standard (13 CCR Section 2433(b)(4)) and certification emission level for this engine family in grams per gallon of fuel tank capacity (g/gallon).

Evaporative Certification Method	HC Certification Level (g/gallon)	HC Certification Standard (g/gallon)		
Design Based	N/A	N/A		

BE IT FURTHER RESOLVED: That for the listed engines for the aforementioned model-year, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2433(c) (certification and test procedures), 13 CCR Section 2434 (emission control labels), and 13 CCR Sections 2435 and 2436 (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-L-078-0006 dated October 11, 2022.

Executed on this _____ 20th_ day of April 2023.

Robin U. Lang, Chief

John Shi for

Emissions Certification and Compliance Division

LSIE Exhaust Model Summary Template (rev. Aug 2021)	
Date:January 25, 2023 Engine Family: _PDICB03.4PMA	
Model Summary	

For CARB Use Only Executive Order: U-L-078-0006-1 Attachment __1__of__1__

an asterisk (*) to identify	worst-case engine model used fo	r certification te	sting.)		I		I	I	1
		Sales C	odes (Check all ap	propriate)					
S13.	S14.	CA Only	49-State	50-State	S16.	S17.	S18.	S19.	
Engine Model	Engine Code				Engine Displacement (Liters)	Rated Power (kW)	Rated Speed (RPM)	Peak Torque (FT-LB)	Peak Torqu
PM03V	PM03-LBF00*			X	3.4	55	2500	184.39	:

S13. Engine Model	S14. Engine Code	CA Only	49-State	50-State	S16. Engine Displacement (Liters)	S17. Rated Power (kW)	S18. Rated Speed (RPM)	S19. Peak Torque (FT-LB)	S20. Peak Torque Speed (RPM)
PM03V	PM03-LBF00*			Х	3.4	55	2500	184.39	1500
	1.11100 251 00			,	3	33	2500	20 1100	1300