

Mitsubishi Heavy Industries Meiki Engines Co., Ltd.

EXECUTIVE ORDER U-U-271-0007 New Off-Road Small Spark-Ignition Engines at or Below 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-14-012;

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

ENGINE CODES/MODELS (rated power in	MODEL YEAR ENGI		E FAMILY	DISPLACEMENT (cc)	ENGINE CLASS		FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)			
HOURS EMISSION CONTROL SYSTEMS 300 EM Non-Backpack Blower, Line Trimmer, Leaf Blower/Vacuum Edger and Brushcutter ENGINE CODES/MODELS (rated power in	2019	КМН	S.0474TK 43, 47 2-strol			<50 cc	Gasoline			
EM Edger and Brushcutter ENGINE CODES/MODELS (rated power in						TYPICAL EQUIPMENT APPLICATION				
CODES/MODELS (rated power in See Attachment	300			EM			Non-Backpack Blower, Line Trimmer, Leaf Blower/Vacuum, Edger and Brushcutter			
Kilotida, Kil	CODES/MODELS		See Attachment							

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx), carbon monoxide (CO), and particulate matter (PM) emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2403(b)), 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 Section 1054.115(a) of the "California Exhaust Emission Standards and Test Procedures for New 2013 and Later Small Off-Road Engines," adopted October 25, 2012.

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)	
STANDARD	50	536	2.0	
FAMILY EMISSION LEVEL		*	*	
CERTIFICATION LEVEL	45	200	0.9	

BE IT FURTHER RESOLVED: That the family emission level(s) (FELs), as applicable, is an emission limit declared by the manufacturer for use in the averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2403(e)(1) and 2407(a).

BE IT FURTHER RESOLVED: That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2404 (emission control labels) and 13 CCR Sections 2405 and 2406 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

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 November 2018.

Annette Hebert, Chief

大兵missions Compliance, Automotive Regulations and Science Division

ATTACHUERT POSICE

Page: 9

Model Year:

Manufacturer:

Engine Family:

Mitsubishi Heavy Industries Meiki Engines Co., Ltd.

KMHIS.0474TK

Issued:

9/21/2018

Revised:

E.O. Number: 60-66-27/-0007

Small Off-Road Engine Model Summary Form

Units for Table: kW

	4 7.	48.	49.	50.	51.	52 .	53.	54.	55.	56.
Worst	Model	Sales	Displ	Bore/	Ignition	Max	Rated Speed	Rated	Torque Speed	Emiss
Case?	Designation	Code	(cc)	Stroke	Timing	Power	(RPM)	Torque	(RPM)	Control Sys
	TLE43	50-State	42.7	40/34	40degBT	1.27	7500	1.62	7500	EM
X	TLE48	50-State	47.1	42/34	40degBT	1.80	7500	2.29	7500	EM