

ZHEJIANG CONSTANT ENGINE MADING CO., LTD

EXECUTIVE ORDER U-U-243-0109 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-19-095:

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.

MODEL YEAR	ENGINE FAMILY	ENGINE CLASS	FUEL TYPE		
2024	RZCES.4392GB	4-stroke, 225-825 cc, inclusive	Gasoline, Gasoline-Liquefied Petroleum Gas (LPG) Dual Fuel, Gasoline-Liquefied Petroleum Gas (LPG)-Compressed Natural Gas (CNG) Multi-Fuel		
DURABILITY HOURS	EMISSION CONTROL SYSTEMS & SPECIAL FEATURES	EQUIPMENT APPLICATION			
1000	Throttle Body Fuel Injection (TBI), Engine Control Module (ECM), Three-Way Catalyst (TWC), Oxygen Sensor (O2S)	Generator Set			

Engines certified by this Executive Order are further described in 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," amended January 1, 2023.

	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)
STANDARD	3.0	200	*
FAMILY EMISSION LIMIT	*	*	*
CERTIFICATION LEVEL	2.2	28	*

^{*}not applicable

BE IT FURTHER RESOLVED: That the family emission limit(s) (FELs), as applicable, is an emission level that is declared by the manufacturer to serve for 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 on this 16th day of November 2023.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

SORE Exhaust Model Summary	Template (rev. 2020)

Date:	_09/08/2023_	
	Eamily: R7CE	3 1303CB

For CARB Use	Only	,		
Executive Ord	der: l	J-U-2	43-01	109
Attachment	1	of	1	

Model Summary

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Worst Case	Model Designation	Sales Code	Displacement	Bore/Stroke	Ignition Timing	Max Power	Rated Speed (RPM)	Rated Torque		Emission Control System
(Check One)	Widder Designation	Sales Code	(cc)	Bole/Stroke	ignition mining	Max Power	nateu speeu (nrivi)	nateu Torque	Torque speed (KFIM)	Emission Control system
x	CST190FD/T-W012 (Gasoline/LPG/CNG)	50-State	439	90/69	28±2 BTDC	9.5	3600	26	2800	TBI, ECM, O2S, TWC
	CST190FD/Q-W011 (Gasoline)	50-State	439	90/69	28±2 BTDC	9.5	3600	26	2800	TBI, ECM, O2S, TWC
	CST190FD/D-W028 (Gasoline/LPG)	50-State	439	90/69	28±2 BTDC	9.5	3600	26	2800	TBI, ECM, O2S, TWC