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.

MODEL YEAR ENGINE		NE FAMILY	DISPLACEMENT (cc)	ENGINE CLASS		FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)			
2019	019 KZCES.1931GA		171, 193	4-stroke, >80 cc - <225 cc		Gasoline			
DURABILITY HOURS		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
500	500		EM			Pump, Pressure Washer, Generator Set			
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment							
EGR=exhaus	t gas recirc	ulation AIR=seco	ondary air injection PAIR=	pulsed AIR MFI=mu	Iti port fuel inject	varm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S tion SFI=sequential MFI TBi=throttle body fuel injection x)=in series ECM=engine control module			

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	10.0	549	•
FAMILY EMISSION LEVEL	•	*	*
CERTIFICATION LEVEL	8.6	361	*

**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 October 2018.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

Model Year: 2019 Manufacturer: Zhejiang Constant Engine Mading Co., Ltd. KZCES.1931GA Engine Family:

Issued: Revised: E.O. Number: 11-11-243-0034

8/13/2018

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## Small Off-Road Engine Model Summary Form

				Attachment				Units for Table: kW		
Worst Case?	47. Model Designation	48. Sales Code	49. Displ (cc)	Cpad 50. Bore/ Stroke	J & 1 51. Ignition Timing	0 € 1 52. Max Power	53. Rated Speed. (RPM)	54. Rated Torque	55. Torque Speec (RPM)	56. Emiss Control Sys
	CT166FD-B1	50-State	171	66/50	21 BTDC	4.0	3800	11.0	2800	EM
X	CT166FDE-B1	50-State	171	66/50	21 BTDC	4.0	3800	11.0	2800	EM
	CT166FDE-B2	50-State	171	66/50	21 BTDC	4.0	3800	11.0	2800	EM
	CT170FD-B2 CT170FDE-B3	50-State	193	70/50	25BTDC	4.2	3800	12	2800	EM
	CT170FDE-B4	50-State 50-State	193 193	70/50 70/50	25BTDC 25BTDC	4.2 4.2	3800 3800	12 12	2800 2800	EM