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			DISPLACEMENT (cc)	ENGINE CLASS		FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)		
2022	NZYPS.3892GA		338, 389	4-stroke, $\geq$ 225 cc		Gasoline, LPG, Gasoline-LPG Dual Fuel, Gasoline-LPG-CNG Tri Fuel		
DURABILITY HOURS		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
500		EM			Pump, Pressure Washer, Generator Set, Other			
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment						
ABBREVIATIONS: EM=engine modification TWC/OC=three-way/oxidizing catalyst WUTWC/WUOC=warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S								

EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR MFI=multi port fuel injection SFI=sequential MFI TBI=throttl injection TC/SC=turbo/super charger CAC=charge air cooler 2(prefix)=parallel (2)(suffix)=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	8.0	549	*	
FAMILY EMISSION LEVEL	*	*	*	
CERTIFICATION LEVEL	6.6	390	*	

**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

This Executive Order hereby supersedes Executive Order U-U-220-0164 dated November 16, 2021.

Executed on this  $2^{\ell}$  day of July 2022.

John Schi for

Robin U. Lang, Chief Emissions Certification and Compliance Division

## SORE Exhaust Model Summary Template (rev. 2020)

## Date: 4/8/2022 Engine Family: NZYPS.3892GA

Model Summary

Worst Case	47. Model	48. Sales Code	49. Displacement	50. Bore/Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	56. Emission Control System
(Check One)	Designation	Sales coue	(cc)	DUIC/SLIDKE	ignition mining	wax r ower	nateu speeu (ni mj	hated forque	Torque Speed (RFIN)	Linission control system
х	YF188FD (Gasoline)	50-State	389	88/64	21BTDC	8.2kW	3600	22.5N.m	2800	EM
	YF188F (Gasoline)	50-State	389	88/64	21BTDC	7.8kW	3600	22.5N.m	2800	EM
	YF182FD (Gasoline)	50-State	338	82/64	21BTDC	7.2kW	3600	20.9N.m	2800	EM
	YF182F (Gasoline)	50-State	338	82/64	21BTDC	6.8kW	3600	20.9N.m	2800	EM
	YF188FD-LPG (LPG)	50-State	389	88/64	21BTDC	7.8kW	3600	20.5N.m	2800	EM
	YF188FD-L_G (Gasoline-LPG dual- fuel)	50-State	389	88/64	21BTDC	8.2kW(Gasoline)/ 7.8kW(LPG)	3600	22.5N.m(Gasoline)/ 20.5N.m(LPG)	2800	EM
x	YF188FD-GLN (Gasoline-LPG- CNG tri-fuel)	50-State	389	88/64	21BTDC	8.2kW(Gasoline)/ 7.8kW(LPG)/ 7.0kW(CNG)	3600	22.5N.m(Gasoline)/ 20.5N.m(LPG)/ 19.1N.m(CNG)	2800	EM

For CARB Use Only Executive Order: U-U-220-0164-1 Attachment \_\_1\_\_\_ of \_\_1\_\_\_