

Husqvarna Zenoah Co., Ltd.

EXECUTIVE ORDER U-U-016-0534-1 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.

MODEL YEAR	FNGINE FAMILY		DISPLACEMENT (cc)	ENGINE (CLASS	FUEL TYPE (CNG/LNG=compressed/liquefled natural gas LPG=lique petroleum gas)			
2019	KHQZ	ZS.0254HD	25.4	5.4 2-stroke, <		Gasoline			
DURABILITY HOURS		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION				
300			TWC			Line Trimmer, Hedge Trimmer, Edger, Brushcutter			
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment							
ABBREVIATI	ONS: EM=	engine modificat	ion TWC/OC=three-way/oxi	dizing catalyst WU	TWCMUOC=w	rarm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S tion SFI=sequential MFI TBI=throttle body fuel injection			

DFI=direct fuel 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	50	536	2.0	
FAMILY EMISSION LEVEL	44	536	2.0	
CERTIFICATION LEVEL	37	254	0.7	

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.

This Executive Order hereby cancels and replaces Executive Order U-U-016-0534 dated February 19, 2019.

Inpette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Model Year:

2019

Manufacturer: Husqvarna Zenoah Co., Ltd.

Engine Family: KHQZS.0254HD

Issued:

Revised:

E.O. Number:

2/7/2019

V-V-016-0534-

Small Off-Road Engine Model Summary Form

Attachment 2 of 2

Units for Table: kW

Worst Case?	47. Model Designation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	56. Emiss Control Sys
X	GZ26S20	50-State	25.4	34/28	33	0.91	8500	1.2	6500	TWC
	GZ26S17	50-State	25.4	34/28	33	0.91	8500	1.2	6500	TWC
	GZ26S19	50-State	25.4	34/28	33	0.91	8500	1.2	6500	TWC
	GZ26S41	50-State	25.4	34/28	30	0.91	8500	1.2	6500	TWC
	GZ26S21	50-State	25.4	34/28	33	0.91	8500	1.2	6500	TWC
	GZ26S72	50-State	25.4	34/28	30	0.91	8500	1.2	6500	TWC
-	GZ26S73	50-State	25.4	34/28	30	0.91	8500	1.2	6500	TWC
	GZ26S75	50-State	25.4	34/28	33	0.91	8500	1.2	6500	TWC
	GZ26S97	50-State	25.4	34/28	30	0.91	8500	1.2	6500	TWC