

## **BRIGGS & STRATTON CORPORATION**

EXECUTIVE ORDER U-U-002-1087 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 equi4pment. Production engines shall be in all material respects the same as those for which certification is granted.

2019     KBSXS.8102VS     724, 810     4-stroke, ≥ 225 cc     Gasoline       DURABILITY HOURS     SPECIAL FEATURES & EMISSION CONTROL SYSTEMS     TYPICAL EQUIPMENT APPLICATION       1000     EM     Tractor       ENGINE CODES/MODELS (rated power in the control of the con	MODEL YEAR ENGI		NE FAMILY	DISPLACEMENT (cc)	ENGINE CLASS		FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)		
HOURS EMISSION CONTROL SYSTEMS TYPICAL EQUIPMENT APPLICATION  1000 EM Tractor  ENGINE CODES/MODELS See Attachment	2019 KBSXS.8102VS		(S.8102VS	724, 810	4-stroke, ≥ 225 cc		Gasoline		
ENGINE CODES/MODELS See Attachment						TYPICAL EQUIPMENT APPLICATION			
CODES/MODELS See Attachment	1000		EM			Tractor			
kilowatt, kW)	CODES/MODELS (rated power in		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.

DFI=direct fuel injection TC/SC=turbo/super charger CAC=charge air cooler 2(prefix)=parallel (2)(suffix)=in series ECM=engine control module

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)	
STANDARD	8.0	549	•	
FAMILY EMISSION LEVEL	8.0	549	•	
CERTIFICATION LEVEL	5.8	398	*	

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 12

day of December 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

EU #U-U-402-1087

age: 9

Model Year: Manufacturer:

2019

**Briggs & Stratton Corporation** 

Issued: Revised:

10/1/2018

Engine Family: KBSXS.8102VS

E.O. Number:

## **Small Off-Road Engine Model Summary Form**

Units for Table: kW

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
44C6	50-State	724	79.2 / 73.4	22	16.1	3600	47.5	2800	EM
44C7	50-State	724	79.2 / 73.4	22	17.9	3600	50.2	2800	EM
44C8	50-State	724	79.2 / 73.4	22	17.5	3600	50.8	2600	EM
44T9	50-State	724	79.2 / 73.4	22	18.0	3600	51.7	2800	EM
49V6	50-State	810	83.8 / 73.4	22	17.7	3600	53.2	2400	EM
4497	50-State	724	79.2 / 73.4	22	17.9	3600	50.2	2800	EM
	Model Designation 44C6 44C7 44C8 44T9 49V6	Model Designation         Sales Code           44C6         50-State           44C7         50-State           44C8         50-State           44T9         50-State           49V6         50-State	Model Designation         Sales Code (cc)         Displemental Displ	Model Designation         Sales Code         Displemental Displement	Model Designation         Sales Code         Displementary         Bore/Stroke         Ignition Timing           44C6         50-State         724         79.2 / 73.4         22           44C7         50-State         724         79.2 / 73.4         22           44C8         50-State         724         79.2 / 73.4         22           44T9         50-State         724         79.2 / 73.4         22           49V6         50-State         810         83.8 / 73.4         22	Model Designation         Sales Code         Displementary         Bore/Stroke         Ignition Timing         Max Power           44C6         50-State         724         79.2 / 73.4         22         16.1           44C7         50-State         724         79.2 / 73.4         22         17.9           44C8         50-State         724         79.2 / 73.4         22         17.5           44T9         50-State         724         79.2 / 73.4         22         18.0           49V6         50-State         810         83.8 / 73.4         22         17.7	Model Designation         Sales Code         Displementary         Bore/Stroke         Ignition Timing         Max Pated Speed (RPM)           44C6         50-State         724         79.2 / 73.4         22         16.1         3600           44C7         50-State         724         79.2 / 73.4         22         17.9         3600           44C8         50-State         724         79.2 / 73.4         22         17.5         3600           44T9         50-State         724         79.2 / 73.4         22         18.0         3600           49V6         50-State         810         83.8 / 73.4         22         17.7         3600	Model Designation         Sales Code         Displementary         Bore/ Stroke         Ignition Timing         Max Power         Rated Speed (RPM)         Rated Torque           44C6         50-State         724         79.2 / 73.4         22         16.1         3600         47.5           44C7         50-State         724         79.2 / 73.4         22         17.9         3600         50.2           44C8         50-State         724         79.2 / 73.4         22         17.5         3600         50.8           44T9         50-State         724         79.2 / 73.4         22         18.0         3600         51.7           49V6         50-State         810         83.8 / 73.4         22         17.7         3600         53.2	Model Designation         Sales Code         Displementary         Bore/ Stroke         Ignition Timing         Max Power         Rated Speed (RPM)         Rated Torque Speed (RPM)           44C6         50-State         724         79.2 / 73.4         22         16.1         3600         47.5         2800           44C7         50-State         724         79.2 / 73.4         22         17.9         3600         50.2         2800           44C8         50-State         724         79.2 / 73.4         22         17.5         3600         50.8         2600           44T9         50-State         724         79.2 / 73.4         22         18.0         3600         51.7         2800           49V6         50-State         810         83.8 / 73.4         22         17.7         3600         53.2         2400