California Environmental Protection Agency **Air Resources Board**	**SCAG POWER EQUIPMENT**	**EXECUTIVE ORDER U-U-089-0043** New Off-Road Small Spark-Ignition Equipment

Pursuant to the authority vested in the 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 equipment produced by the manufacturer is certified as described below. Production equipment shall be in all material respects the same as those for which certification is granted.

ENGINE DESCRIPTION			
MANUFACTURER	**ENGINE FAMILY (E.O. NUMBER)**	**ENGINE SIZE (cc)**	**FUEL TYPE** (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)
KOHLER COMPANY	See Attachment	725, 747	Gasoline
KAWASAKI HEAVY INDUSTRIES, LTD.	See Attachment	603, 726 745, 852	Gasoline

S.A. = See Attachment
TBC = To Be Certified

EQUIPMENT DESCRIPTION			
MODEL YEAR	**EVAPORATIVE FAMILY**	**FUEL TANK SIZE (liters)**	**EQUIPMENT APPLICATION**
2017	COSCGHRLP	19.0, 18.8, 20.0, 20.7, 21.5, 22.7, 29.3, 45.4	Walk-Behind Lawnmower, Riding Mower, Commercial Turf

EMISSION CONTROL SYSTEMS (ECS)	**ENGINE and/or EQUIPMENT MODEL**
Canister/Other	See Attachment

A. **ECS TYPE** (Venting Control Type/Tank Barrier Type): 1. Venting Control Type and Code:- Canister=C Sealed Tank=S Other=O 2. Tank Barrier Type and Code:- Metal=M Treated HDPE or PE=P Co-extruded=C Selar=L Nylon=N Acetal=A Other=O B. **EVAPORATIVE FAMILY 2-Letter CODE** (Venting Control Codes =C, S, O); (Tank Barrier Codes = M, P, C, L, N, A, O). Note: Always list venting control type or code first before tank barrier type or code. Do not use abbreviations for ECS types.

The following are the evaporative emission standards (Title 13, California Code of Regulations, 13 CCR Section 2754(a) or 2754(b), as applicable), and certification levels in grams per day (g/day) or grams per square meter per day (g/m^2/day) or grams per liter (g/l) for this evaporative family or the component Executive Order, as applicable. The running loss emissions control has been demonstrated by the manufacturer.

*=not applicable	DESIGN BASED				
FUEL HOSE PERMEATION ($g ROG/m^2$/day)		**FUEL TANK PERMEATION** ($g ROG/m^2$/day)		**CARBON CANISTER BUTANE WORKING CAPACITY** (grams HC/liter)	
STANDARD	**CERTIFICATION LEVEL OR EXECUTIVE ORDER**	**STANDARD**	**CERTIFICATION LEVEL OR EXECUTIVE ORDER**	**STANDARD**	**CERTIFICATION LEVEL OR EXECUTIVE ORDER**
15	G-05-018, Q-14-008, C-U-05-006, C-U-05-009	1.5	Q-08-027A	1.4	Q-09-021, Q-09-023, Q-13-012

BE IT FURTHER RESOLVED: That for the listed equipment, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2759 (labeling) and 13 CCR Sections 2760 and 2764 (emission control system warranty).

Equipment certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Equipment in this family that is produced for any other model-year is not covered by this Executive Order.

Executed at El Monte, California on this 9th day of September 2016.

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

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Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Engine or Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	SW32-14FS SW36A-14FS SW48V-14FS SW52V-15FS SWZ36A-14FS SWZ-14FS-16 SWZ48V-15FS SWZ-15FS-16 SWZ52V-18FS SWZ-18FS-16 SWZL52V-18FS	X			II	CARB	19.0	.51	CPE	748	6.35	GKAXS.6032CA HKAXS.6032CA	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-021
	SWZT36-14FS SWZT48-15FS SWZT52-18FS SWZT52-18FSE	X			II	CARB	19.0	.51	CPE	799	6.35	GKAXS.6032CA HKAXS.6032CA	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-021
	SVR36A-15FS	X			II	CARB	18.8	.48	CPE	824	6.35	GKAXS.6032CA HKAXS.6032CA	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-021
	SVR36A-19FX	X			II	CARB	18.8	.48	CPE	824	6.35	GKAXS.6032CB HKAXS.6032CB	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-021
	SWZL52V-22FSE SWZL61V-22FSE	X			II	CARB	19.0	.51	CPE	778	6.35	GKAXS.7262CA HKAXS.7262CA	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-021
	SWZT61-22FSE	X			II	CARB	19.0	.51	CPE	829	6.35	GKAXS.7262CA HKAXS.7262CA	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-021
	STCII-48V-22FS	X			II	CARB	21.5 20.0	.73 .73	CPE	2556	6.35	GKAXS.7262CA HKAXS.7262CA	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-021 Qty = 2
	SVR48V-22FX	X			II	CARB	18.8	.48	CPE	854	6.35	GKAXS.7262CC HKAXS.7262CC	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-021

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	SVR52V-23FX	X			II	CARB	29.3	.66	CPE	854	6.35	GKAXS.7262CC HKAXS.7262CC	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-023
	SPZ52-22FX SPZ61-23FX	X			II	CARB	22.7	.83	CPE	1362	6.35	GKAXS.7262CC HKAXS.7262CC	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-023
	STCII-48V-22FX STCII-52V-22FX STCII-61V-23FX	X			II	CARB	21.5 20.0	.73 .73	CPE	2556	6.35	GKAXS.7262CC HKAXS.7262CC	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-021 Qty = 2
	SCZ48V-22FX SCZ52V-23FX	X			II	CARB	20.7 20.0	.74 .72	CPE	2276	6.35	GKAXS.7262CC HKAXS.7262CC	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-021 Qty = 2
	STTII-61V-26DFI STTII-72V-26DFI	X			II	FI	45.4	1.20	CPE	1207 1371 57	6.35 7.94 12.70	GKAXS.7452IB HKAXS.7452IB	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-13-012
	SVR61V-25FX	X			II	CARB	29.3	.66	CPE	919	6.35	GKAXS.8522CA HKAXS.8522CA	Q-08-027A	G-05-018 Q-14-008 C-U-05-006	Q-09-023
	SFZ48-22KT SFZ52-24KT	X			II	CARB	22.7	.83	CPE	714	6.35	GKHXS.7252GB HKHXS.7252GB	Q-08-027A	G-05-018 Q-14-008	Q-09-023
	STCII-48V-23CV	X			II	CARB	21.5 20.0	.73 .73	CPE	2218	6.35	GKHXS.7472GE HKHXS.7472GE	Q-08-027A	G-05-018 Q-14-008	Q-09-021 Qty = 2
	SVR52V-25CV-EFI SVR61V-26CV-EFI	X			II	FI	29.3	.66	CPE	1264 483	6.35 7.94	GKHXS.7472PD HKHXS.7472PD	Q-08-027A	G-05-018 Q-14-008 C-U-05-009	Q-09-023
	STCII-52V-25CV-EFI	X			II	FI	21.5 20.0	.51 .55	CPE	2185 483	6.35 7.94	GKHXS.7472PD HKHXS.7472PD	Q-08-027A	G-05-018 Q-14-008 C-U-05-009	Q-09-021 Qty = 2
	STCII-61V-26CV-EFI	X			II	FI	21.5 20.0	.51 .55	CPE	2223 483	6.35 7.94	GKHXS.7472PD HKHXS.7472PD	Q-08-027A	G-05-018 Q-14-008 C-U-05-009	Q-09-021 Qty = 2
	SCZ52V-25CV-EFI	X			II	FI	20.7 20.0	.74 .72	CPE	2376 483	6.35 7.94	GKHXS.7472PD HKHXS.7472PD	Q-08-027A	G-05-018 Q-14-008 C-U-05-009	Q-09-021 Qty = 2
	STTII-52V-26CH-EFI STTII-61V-26CH-EFI STTII-72V-26CH-EFI	X			II	FI	45.4	1.20	CPE	1111 483	6.35 7.94	GKHXS.7472PD HKHXS.7472PD	Q-08-027A	G-05-018 Q-14-008 C-U-05-009	Q-13-012

(1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)