

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 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)
KAWASAKI HEAVY INDUSTRIES, LTD.	HKAXS.4012CC (U-U-004-0713) JKAXS.4012CC (U-U-004-0741)	401	Gasoline
S.A. = See Attachment TBC = To Be Certified			
EQUIPMENT DESCRIPTION			
MODEL YEAR	EVAPORATIVE FAMILY	FUEL TANK SIZE (liters)	EQUIPMENT APPLICATION
2019	CC6	19.6, 21.3, 25.4	Commercial Turf, Utility Vehicles/Golf Cars
EMISSION CONTROL SYSTEMS (ECS)		ENGINE and/or EQUIPMENT MODEL	
Canister/Co-extruded		See Attachment	
<small>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.</small>			

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/m²/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.

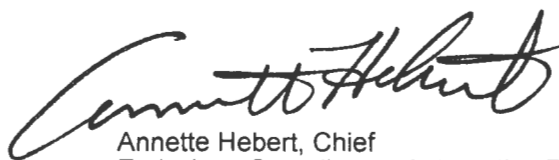
*not applicable		DESIGN BASED			
FUEL HOSE PERMEATION (grams ROG/m ² /day)		FUEL TANK PERMEATION (grams ROG/m ² /day)		CARBON CANISTER BUTANE WORKING CAPACITY (grams HC/liter)	
STANDARD	CERTIFICATION LEVEL OR EXECUTIVE ORDER	STANDARD	CERTIFICATION LEVEL OR EXECUTIVE ORDER	STANDARD	CERTIFICATION LEVEL OR EXECUTIVE ORDER
15	Q-10-004, C-U-05-002, C-U-05-009, G-05-018, Q-08-020	1.5	Q-15-001, Q-15-001A	1.4	C-U-07-016, C-U-07-016A

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 29 day of June 2018.



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

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

MODEL SUMMARY

S1.	S2.	S3.			S4.	S5.	S6.		S7.	S8.	S9.	S10.	S11.	S12.	S13.	S14.
Worst Case (Check One)	Engine or Equipment Model	Sales Codes (check all appropriate)			Engine Class (I or II)	Fuel System (FI or CARB)	Fuel Tank Vol. (Liters)		Fuel Tank Internal Surface Area (m ²)	Fuel Line Type	Nominal Fuel Line Length (mm)	Fuel Line Inside Diameter (mm)	Exhaust Family	Fuel Tank Executive Order	Fuel Line Executive Order	Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State			Total	Nominal								
	Hauler 800 618841G01			X	2	CARB	22.3	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
	Hauler 800X 618846G01			X	2	CARB	22.3	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
	Truckster LS 648598G01			X	2	CARB	22.3	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
	Truckster LX 648599G01			X	2	CARB	22.3	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
	Shuttle 8 626850G01			X	2	CARB	22.3	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020,	C-U-07-016 or C-U-07-016A for Sentec Canister

											lengths)				G-05-018	
Express S4 618862G01			X	2	CARB	22.3	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	
Shuttle 2+2 G 641356G01			X	2	CARB	22.3	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	
5 Pass GC G 606689G01			X	2	CARB	22.3	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	
Shuttle 2 618849G01			X	2	CARB	22.3	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	
Shuttle 4 618851G01			X	2	CARB	22.3	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	
Shuttle 6 618853G01			X	2	CARB	22.3	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	

Express L6 618866G01			X	2	CARB	22.3 Fuel Tank #1	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAX5.4012CC, JKAX5.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
Express 56 618868G01			X	2	CARB	22.3 Fuel Tank #1	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAX5.4012CC, JKAX5.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
TXT G 625111G01			X	2	CARB	22.3 Fuel Tank #1	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAX5.4012CC, JKAX5.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
Freedom TXT G 625113G01			X	2	CARB	22.3 Fuel Tank #1	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAX5.4012CC, JKAX5.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
Shuttle 2+2 TXT G 625115G01			X	2	CARB	22.3 Fuel Tank #1	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAX5.4012CC, JKAX5.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
TXT Valor G 628444G01			X	2	CARB	22.3 Fuel Tank #1	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAX5.4012CC, JKAX5.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
Hauler 800			X	2	CARB	22.3	21.3	0.47	Low	965	6.35	HKAX5.4012CC,	Q-15-001,	Q-10-004,	C-U-07-016 or

Refresh 662148G01						Fuel Tank #1				Perm	(total combined hose lengths)		JKAXS.4012CC	Q-15-001A	C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016A for Sentec Canister
Hauler 800X Refresh 662149G01			X	2	CARB	22.3 Fuel Tank #1	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	
Truckster LS Refresh 662150G01			X	2	CARB	22.3 Fuel Tank #1	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	
Truckster LX Refresh 662151G01			X	2	CARB	22.3 Fuel Tank #1	21.3	0.47	Low Perm	965 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	
Hauler 1200 651387G01			X	2	CARB	30.43 Fuel Tank #2	25.4	0.61	Low Perm	990 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	
Truckster MS 651388G01			X	2	CARB	30.43 Fuel Tank #2	25.4	0.61	Low Perm	990 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	
			X	2	CARB	30.43	25.4	0.61	Low	990	6.35	HKAXS.4012CC,	Q-15-001,	Q-10-004,	C-U-07-016 or	

X	Hauler 1200X 651390G01									Perm (total combined hose lengths)		JKAXS.4012CC	Q-15-001A	C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016A for Sentec Canister
	Truckster MX 651392G01		X	2	CARB	30.43 Fuel Tank #2	25.4	0.61	Low Perm	990 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
	Refresher (MWB/FS2) G 651394G01		X	2	CARB	30.43 Fuel Tank #2	25.4	0.61	Low Perm	990 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
	Hauler 1600 G 663807G01		X	2	CARB	30.43 Fuel Tank #2	25.4	0.61	Low Perm	990 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
	FS4 Refresh Gas 665732G01		X	2	CARB	30.43 Fuel Tank #2	25.4	0.61	Low Perm	990 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
	Refresher FS4 G 639075G01		X	2	CARB	21.2 Fuel Tank #3	19.6	0.45	Low Perm	978 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister
			X	2	CARB	21.2	19.6	0.45	Low	978	6.35	HKAXS.4012CC,	Q-15-001,	Q-10-004,	C-U-07-016 or

	RXV G 638541G01					Fuel Tank #3				Perm	(total combined hose lengths)		JKAXS.4012CC	Q-15-001A	C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016A for Sentec Canister
	Freedom RXV G 638543G01		X	2	CARB	21.2 Fuel Tank #3	19.6	0.45	Low Perm	978 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	
	Shuttle 2+2 RXV G 638545G01		X	2	CARB	21.2 Fuel Tank #3	19.6	0.45	Low Perm	978 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	
	Shuttle 2+2 RXV Hi Spd G 638547G01		X	2	CARB	21.2 Fuel Tank #3	19.6	0.45	Low Perm	978 (total combined hose lengths)	6.35	HKAXS.4012CC, JKAXS.4012CC	Q-15-001, Q-15-001A	Q-10-004, C-U-05-002, C-U-05-009, Q-08-020, G-05-018	C-U-07-016 or C-U-07-016A for Sentec Canister	

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