California Environmental Protection Agency **Air Resources Board**	**JOHN DEERE**	**EXECUTIVE ORDER U-U-077-0046** 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-02-003;

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.	See Attachment A	See Attachment A	Gasoline
Briggs & Stratton Corporation	See Attachment A	See Attachment A	
Kohler Company	See Attachment A	See Attachment A	

* TBC = To Be Certified

EQUIPMENT DESCRIPTION

MODEL YEAR	EVAPORATIVE FAMILY	FUEL TANK SIZE (liters)	EQUIPMENT APPLICATION
2014	CC1	See Attachment B	Tractor, Utility Vehicle, Commercial Turf, Bunker Rake, Aerator

EMISSION CONTROL SYSTEMS (ECS)	ENGINE and/or EQUIPMENT MODEL
Canister/Co-extruded	See Attachment B

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.

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 EXCUTIVE ORDER	STANDARD	CERTIFICATION LEVEL OR EXECUTIVE ORDER	STANDARD	CERTIFICATION LEVEL OR EXECUTIVE ORDER
15	C-U-05-002, C-U-05-013, C-U-06-030, G-05-016, Q-08-013, G-05-017A, G-05-018	1.5	*	1.4	C-U-06-015, C-U-07-010, Q-09-027, Q-08-031

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 15th day of July 2013.

Erik White, Chief
Mobile Source Operations Division

ATTACHMENT A

Exhaust Family	Displacement	E.O. NUMBER
CBSXS.4792HH	479	U-U-002-0684-4
CBSXS.5002VV	500	U-U-002-0697
CBSXS.5402VL	540	U-U-002-0699-1
CBSXS.7242VA	724	U-U-002-0700
DBSXS.4792HH	479	U-U-002-0739
DBSXS.5002VV	500	U-U-002-0743-1
DBSXS.5402VL	540	U-U-002-0744
DBSXS.7242VA	724	U-U-002-0747-1
CKAXS.4012CC	401	U-U-004-0518
CKAXS.4012CD	352	U-U-004-0519
CKAXS.6172CC	617	U-U-004-0505
CKAXS.7262CA	726	U-U-004-0524
CKAXS.7262CC	726	U-U-004-0526
CKAXS.8522CA	852	U-U-004-0528
DKAXS.4012CC	401	U-U-004-0565
DKAXS.4012CD	352	U-U-004-0556
DKAXS.6032CA	603	U-U-004-0555
DKAXS.7262CA	726	U-U-004-0547
DKAXS.7262CC	726	U-U-004-0549
DKAXS.8522CA	852	U-U-004-0539
DKHXS.6742GC	674	U-U-005-0392-1

ATTACHMENT B (page 1 of 2)

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			Total	Nominal								
	A40 Aercore			X	II	carb	37.9	34.1	0.76	Multi-layer	1000	6.35	DKHXS.6742GC	Exempt-coextruded	C-U-05-013 G-05-017A G-05-018	Q-08-031
	1200A			X	II	carb	15.0	13.6	0.41	Multi-Layer	2100	6.35	CKAXS.4012CD DKAXS.4012CD	Exempt-coextruded	C-U-05-013 G-05-018 Q-8-013	C-U-07-010
	1200H			X	II	carb	18.9	14.8	0.42	Multi-layer	525	6.35	CBSXS.4792HH DBSXS.4792HH	Exempt-coextruded	C-U-05-002 C-U-05-013 C-U-06-030 G-05-016 G-05-018	C-U-06-015
	2500B, 2500E Hybrid			X	II	carb	42.8	29.9	0.95	Multi-Layer	475	6.35	CKAXS.6172CC DKAXS.6172CC	Exempt-coextruded	C-U-05-013 G-05-018 Q-08-013	Q-08-031
	D110	X	X		II	carb	12.1	9.1	0.35	Multi-Layer	1980	6.35	CBSXS.5002VV DBSXS.5002VV	Exempt-coextruded	C-U-05-002 C-U-05-013 C-U-06-030 G-05-016 G-05-018	C-U-06-015
	D120	X	X		II	carb	12.1	9.1	0.35	Multi-Layer	1980	6.35	CBSXS.5402VL DBSXS.5402VL	Exempt-coextruded	C-U-05-002 C-U-05-013 C-U-06-030 G-05-016 G-05-018	C-U-06-015
	D130, D140, D160, D170	X	X		II	carb	12.1	9.1	0.35	Multi-Layer	2215	6.35	CBSXS.7242VA DBSXS.7242VA	Exempt-coextruded	C-U-05-002 C-U-05-013 C-U-06-030 G-05-016 G-05-018	C-U-06-015
	TS Gator			X	II	carb	22.3	18.9	0.54	Multi-Layer	1050	6.35	CKAXS.4012CD DKAXS.4012CD	Exempt-coextruded	C-U-05-013 G-05-018 Q-8-013	C-U-06-015
	TX Gator	X	X		II	carb	22.3	18.9	0.54	Multi-Layer	1230	6.35	CKAXS.4012CC DKAXS.4012CC	Exempt-coextruded	C-U-05-013 G-05-018 Q-8-013	C-U-06-015

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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			Total	Nominal								
	TX Turf Gator			X	II	carb	22.3	18.9	0.54	Multi-Layer	1230	6.35	CKAXS.4012CC DKAXS.4012CC	Exempt-coextruded	C-U-05-013 G-05-018 Q-8-013	C-U-06-015
	X300, X304	X	X		II	carb	13.7	12.5	0.52	Multi-Layer	1900	6.35	CKAXS.6032CA DKAXS.6032CA	Exempt-coextruded	C-U-05-013 G-05-018 Q-8-013	C-U-06-015
	X300R	X	X		II	carb	9.0	7.6	0.43	Multi-Layer	1385	6.35	CKAXS.6032CA DKAXS.6032CA	Exempt-coextruded	C-U-05-013 G-05-018 Q-08-013	C-U-06-015
	X320	X	X		II	carb	13.7	12.5	0.52	Multi-Layer	1900	6.35	CKAXS.7262CA DKAXS.7262CA	Exempt-coextruded	C-U-05-013 G-05-018 Q-8-013	C-U-06-015
	X500	X	X		II	carb	19.3	16.7	0.86	Multi-Layer	1900	6.35	CKAXS.7262CA DKAXS.7262CA	Exempt-coextruded	C-U-05-013 G-05-018 Q-8-013	C-U-06-015
	Z235, Z255	X	X		II	carb	12.1	7.9	0.35	Multi-Layer	1295	6.35	CBSXS.7242VA DBSXS.7242VA	Exempt-coextruded	C-U-05-002 C-U-05-013 C-U-06-030 G-05-016 G-05-018	C-U-06-015
	Z425	X	X		II	carb	15.4	13.2	0.45	Multi-Layer	1200	6.35	CBSXS.7242VA DBSXS.7242VA	Exempt-coextruded	C-U-05-002 C-U-05-013 C-U-06-030 G-05-016 G-05-018	C-U-06-015
	Z645	X	X		II	carb	15.4	13.2	0.45	Multi-Layer	2315	6.35	CKAXS.7262CA DKAXS.7262CA	Exempt-coextruded	C-U-05-013 G-05-018 Q-8-013	C-U-06-015
	Z920M	X	X	X	II	Carb	48.3	42.3	1.2	Multi-Layer	700	6.35	CKAXS.7262CC DKAXS.7262CC	Exempt-coextruded	C-U-05-013 G-05-017A G-05-018	Q-09-027
X	Z930M	X	X		II	Carb	48.3	42.3	1.2	Multi-Layer	700	6.35	CKAXS.8522CA DKAXS.8522CA	Exempt-coextruded	C-U-05-013 G-05-017A G-05-018	Q-09-027

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