ECI FUEL SYSTEMS

EXECUTIVE ORDER U-U-140-0060 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.

	a	ENGINE	DESCRIPTION		Marian Company							
	MANUFACTURER	ENGINE FA	MILY (E.O. NUMBER)	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)								
CUM	MINS POWER GENERATION		HN5XS.6532CC (U-U-008-0281) HN5XS.6532IC (U-U-008-0282) 653 Gasoline									
TBC = To E	TBC = To Be Certified EQUIPMENT DESCRIPTION											
MODEL YEAR	EVAPORATIVE FAMILY	FUEL TANK SIZE (liters)	EC	QUIPMENT A	PPLICATION							
2017	CM32	See Attachments	See Attachments Pump, Generator Set and Refueling/Transfer Pump									
EMISSIO	N CONTROL SYSTEMS (ECS)	ENGINE and/or EQUIPMENT MODEL										
Car	bon Canister, Metal Tank		See Attachments									
Code:- Met	A. ECS TYPE (Venting Control Type/Tank Barrier Type): 1. <u>Venting Control Type and Code</u> :- Canister=C Sealed Tank=S Other=O 2. <u>Tank Barrier Type and Code</u> :- Metal=M Treated HDPE or PE=P Co-extruded=C Selar=L Nylon=N Acetal=A Other=O B. <u>EVAPORATIVE FAMILY 2-Letter CODE</u> (Venting Control Codes = C, S, O); (Tank Barrier Codes = M, P, C, L, N, A, O). <u>Note</u> : 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/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.

*=net applicable	PERFORMANCE BASED										
*=not applicable	(grams HC/day)										
STANDARD	EVAPORATIVE FAMILY EMISSION LIMIT DIFFERENTIAL (EFELD)	EVAPORATIVE MODEL EMISSION LIMIT (EMEL)	CERTIFICATION LEVEL								
1.20 + 0.056*Tank Vol. (L)	*	*	2.2								

BE IT FURTHER RESOLVED: That the evaporative model emission limit (EMEL), as applicable, is the diurnal emissions level declared by the manufacturer based on diurnal test results for a worst-case engine or equipment model within an evaporative family. No engine or equipment emissions within the evaporative family could be closer to its respective standard than the evaporative family emission limit differential (EFELD) calculated from the declared EMEL for the worst-case engine or equipment.

BE IT FURTHER RESOLVED: That the evaporative family emission limit differential (EFELD), as applicable, is an emission level differential between the effective standard level for a specific model representing the entire evaporative family and the EMEL declared for the specific model. It serves as the applicable evaporative emission standard for determining compliance on a corporate average basis of any equipment within this evaporative family under 13 CCR Sections 2754.1.

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.

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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.

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

ATTACHMENT B 10+4

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

MODEL SUMMARY

U-U-140-0060

S1.	S2.	S3.		S4.	S5.		S6.	S7.	S8.	S9.	S10.	S11.	S12.	S13.	S14.
Worst Case (Check One)	Engine or Equipment Model	Codes (appropri		Engine Class (I or II)	Fuel System (FI or CARB)	1	Tank Vol. iters)	Fuel Tank Internal Surface Area (m²)	Fuel Line Type	Nominal Fuel Line Length ⁽¹⁾ (mm)	Fuel Line Inside Diameter (mm)	Exhaust Family	Fuel Tank Executive Order	Fuel Line Executive Order	Carbon Canister or Other Venting Control Executive
/	ELC36ON5.5		/	II	CARB	138.02	124.22	2.43	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Order Q-07-016
	ECI40ON5.5		1	II	CARB	151.41	136.27	2.44	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-016
	FW18AON5.5		1	11	CARB	77.74	69.96	1.37	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b Q-07-016
	FLW20ON5.5		1	11	CARB	83.4	75.06	1.59	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b Q-07-016
	FW30BON5.5		1	II	CARB	127.42	114.69	2.20	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-016
	FR34ON5.5		1	11	CARB	129.76	116.78	2.06	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-016

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FR170N5.5		1	II	CARB	66.85	60.17	1.36	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-016
IND300N5.5		1	II	CARB	115.03	103.53	2.12	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-016
IND18ON5.5		/	II	CARB	76.69	69.02	1.57	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-016
VIN250N5.5		1	И	CARB	96.23	86.61	1.73	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-016
MR400N5.5		1	II	CARB	157.57	141.23	2.43	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-017
KS300N5.5		1	Il	CARB	109.77	98.79	1.96	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-016 Q-07-017
FR20ON5.5		1	II	CARB	75.70	68.13	1.52	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b Q-07-016 Q-07-017
SF20ON5.5	-	1	II	CARB	74.30	66.87	1.29	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b Q-07-016 Q-07-017
MM12AON5.5		1	11	CARB	45.42	40.88	.83	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b Q-07-016 Q-07-017

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MM12BON5.5	/	II	CARB	45.99	41.39	.94	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b Q-07-016 Q-07-017
ON7ON5.5	1	II .	CARB	26.53	23.88	.55	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b
ON14ON5.5	1.	II	CARB	55.72	50.15	.94	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b
ON20aON5.5	/	II	CARB	76.95	69.26	1.21	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b
ON10ON5.5	/	I1	CARB	38.98	35.08	.70	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b
ON15ON5.5	1	II	CARB	57.34	51.61	.95	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b
ON20bON5.5	,	II	CARB	75.7	68.13	1.20	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b
ONI4TON5.5	1	II	CARB	53.09	47.78	1.16	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b
ON40ON5.5	1	II	CARB	153.95	138.56	1.76	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-016

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	ON20cON5.5		1	П	CARB	74.30	66.87	1.29	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b
-	ON14bON5.5		1	II	CARB	55.64	50.08	.94	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b
	FB10ON4.0		1	II	CARB	38.27	34.44	.74	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b
	ON20ABON5.5		1	II	CARB	77.96	70.16	1.40	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b
	BIS20ON5.5		1	II	CARB	76.65	68.99	1.75	Multi- layer	10058.4	6.35	HN5XS.6532CC HN5XS.6532IC	Exempt Metal	Q-09-019a Q-09-022 G-05-018 Q-08-022 Q-10-004	Q-07-015b