## Air Resources Board

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 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: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMIL	Y ENGINE	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 5				
2014	ECLFE06.0L	`	LPG	PROCEDURE	CLASS THOO	ECM, TWC, SFI, 2HO2S(2)	EMD				
		0.0	LPG Ollo HDO								
PRIMARY ENGINE'S IDL EMISSIONS CONTROL		ADDITIONAL IDLE EMISSIONS CONTROL 4									
N/A		N/A									
ENGINE (	(L)	ENGINE MODELS / CODES (rated power, in hp)									
6.0	GM-LC8 / Single Fuel LPG (346), GM-LC8 308 / Single Fuel LPG 308 (308)										
*		*									
* =not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc; L=liter; hp=horsepower; kw=kilowatt; hr=hour;  CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;  L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;											
<sup>3</sup> ECS=e up catalyst TBI=throttle super char- control mo-	mission control syste ; DPF=diese! particu e body fuel injection; ger, CAC=charge air dule; EM=engine mo	m; TWC/OC=three-v late filter; PTOX=per SFI/MFI=sequential/ cooler; EGR / EGR dification; 2 (prefix)	ray/oxidizing catalyst; "NAC=NOx adsorp lodic trap oxidizer; HO2S/O2S=heated/o multi port fuel injection; DGI=direct gasol C=exhaust gas recirculation / cooled EGI parallet; (2) (suffix)=in series;	tion catalyst; SCR-t xygen sensor; HAF ine injection; GCAF R; PAIR/AIR=pulse	S/AFS=heated/ B=gaseous car d/secondary air	ctive catalytic reduction – urea / – ammonia; V air-fuel-ratio sensor (a.k.a., universal or linear of fouretor; IDI/DDI=indirect/direct diesel injection injection; SPL=smoke puff limiter; ECM/PCM	oxygen sensor); n; TC/SC=turbo/ l=engine/powertrain				
ESS=e: (per 13 CC	ngine shutdown syste CR 1956.8(a)(6)(D);	em (per 13 CCR 1956 xempt=exempted per	.8(a)(6)(A)(1); 30g=30 g/hr NOx (per 13 r 13 CCR 1956.8(a)(6)(B) or for CNG/LN	CCR 1956.8(a)(6)(0 G fuel systems; N/A	;); APS =intern =not applicable	al combustion auxiliary power system; ALT=a e (e.g., Otto engines and vehicles);	Iternative method				
		jine manufacturer diagnostic system; OBD(F) / (P) / (\$)=full / partial / partial with fine / or-board diagnostic; (2012-08-20									

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the SET and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, SET and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		co		PM		нсно	
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.09	*	0.16	*	*	*	3.9	*	0.01	*	0.002	*
NTE	*		*		*		*		*		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

**BE IT FURTHER RESOLVED:** For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1971 (engine manufacturer diagnostic), and 13 CCR 2035 et seq. (emission control warranty).

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

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

This Executive Order hereby supersedes Executive Order A-367-0023 dated September 6, 2013.

Executed at El Monte, California on this

day of August 2014.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division