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 FAMI	LY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 5
	ODUESC OD	A/7			PROCEDURE	CLASS	TWC, SFI, 2WR-HO2S, HO2S	EMD+
2016	GRIIE06.8B	NZ	6.8	LPG	Otto	HDO	ETHNERACIPENT, PROTECTION	
	ENGINE'S IDLE			A) All	DDITIONAL IDLE EN	IISSIONS CON	ITROL 4	The Revenue
	N/A				N	/A		
ENGINE (L	-)		a le ladillare	ENGINE MO	DDELS / CODES (ra	ted power, in	hp) a leige a vide leid tability a vid	This Execu
L=liter; hp=	horsepower; kw=kil	owatt; hr	=hour;				R 86.abc=Title 40, Code of Federal Regulation -bi fuel; DF=dual fuel; FF=flexible fuel;	ns, Section 86.abc;
						i fuel a.k.a. BF	bi fuel; DF=dual fuel; FF=flexible fuel;	
2	•		Transfer Assertings Transfer Profes	oan bus; HDO=heavy duty (The state of the s			
up catalyst; WR-HO2S= IDI/DDI=indi	DPF=diesel particul wide range oxygen s irect/direct diesel inie	ate filter; ensor; TB ection: TC	PTOX=periodic trap of BI=throttle body fuel in C/SC=turbo/ super cha	oxidizer; HO2S/O2S=heated jection; SFI/MFI=sequentia	d/oxygen sensor; HAF: ll/multi port fuel injection er: EGR / EGR-C=exha	S/AFS=heated/a n; DGI=direct ga aust gas recircul	tive catalytic reduction – urea / – ammonia; V iir-fuel-ratio sensor (a.k.a., universal or linear of asoline injection; GCARB=gaseous carbureto ation / cooled EGR; PAIR/AIR=pulsed/secon in series;	oxygen sensor); r:
FSS=eng (per 13 CCF	gine shutdown syste R 1956.8(a)(6)(D); E	m (per 13 xempt=ex	CCR 1956.8(a)(6)(A) cempted per 13 CCR	(1); 30g=30 g/hr NOx (per 1956.8(a)(6)(B) or for CNG/	13 CCR 1956.8(a)(6)(C LNG fuel systems; N/A	;); APS =interna =not applicable	al combustion auxiliary power system; ALT=a (e.g., Otto engines and vehicles);	Iternative method
EMD=er	ngine manufacturer o	diagnostic	system; OBD(F) / (F	P) / (\$)=full / partial / partial v	with fine / on-board diag	gnostic;		(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 heavyduty 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	NM	НС	N.	Ox	NMHO	C+NOx	С	0	PI	M	HCI	НО
g/bhp-hr	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*
CERT	0.10	*	0.11	*	*	*	2.8	*	0.002	*	0.000	*
NTE				*		*		*	*		*	

⁴ g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET= supplemental emissions testing; NTE=Not-to-Exceed emission limit; 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;)

BE IT FURTHER RESOLVED: The manufacturer has demonstrated compliance with the Greenhouse Gas Emission Standards as specified in Title 13 CCR 1956.8 and the incorporated "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy Duty Otto Cycle Engines and Vehicles" (HDOE Test Procedures) adopted Dec. 27, 2000, as last amended Oct. 21, 2014 using the 2014 model year National Heavy-Duty Engine and Vehicle Greenhouse Gas Program as specified in Section 1036.108 of the HDOE Test Procedures. The manufacturer has submitted the required information and therefore has met the criteria necessary to receive a California Executive Order based on the Environmental Protection Agency's Certificate of Conformity for the above listed engine family.

	EPA CERTIFICAT	E OF CONFORMITY	PRIMARY INTENDED SERVICE CLASS *			
	RII-ONH	WY-16-01				
In		O ₂	CH	11.0		
g/bhp-hr	FTP	SET	CH4	N₂O		
STD	*	*	*	*		
FCL	*	*	*	*		
FEL	*	*	*	*		
CERT	*	*	*	*		

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental emissions testing; STD = standard or emission test cap; FEL=family emission limit; FCL=family certification level; CERT=certification level; CO₂=carbon dioxide; CH₄=methane; N₂O=nitrous oxide; VOCATIONAL=vocational engine; TRACTOR=tractor engine

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BE IT FURTHER RESOLVED: Certification to the FEL(s) / FCL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) / FCL(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 2035 et seq. (emission control warranty) and 13 CCR 1971.1 (on-board diagnostic).

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-344-0059 dated December 4, 2015.

Executed at El Monte, California on this

day of July 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Template

A-344-0059-1 7-5-2016

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Attachi	Attachment 1 ab 1							7-5-2016	910
Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque		8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930
GRIIE06.8BWZ	GGE418NR5	E450 Incomplete	305@4250	NA	NA	420@3250	82.1	85.2	TWC/2WR-H02S/H02S/ SFI
GRIIE06.8BWZ	GGE418MR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GGE41LNR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GGE41LMR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GGE418SR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GGE418PR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GGE41LSR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GGE41LPR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GHE418NR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GHE418MR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GHE41LNR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GHE41LMR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GHE418SR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GHE418PR5	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GHE41LSR5.	Same	Same	Same	Same	Same	Same	Same	Same
GRIIE06.8BWZ	GHE41LPR5	Same	Same	Same	Same	Same	Same	Same	Same
		7						/	
			7						
a	added per	per rommy grand	25	4					