California Environmental Protection Agency	504 110 11 0	EXECUTIVE ORDER A-009-1290
OD Air Resources Board	FCA US LLC	New On-Road Heavy-Duty Engines Page 1 of 2

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 FAM			ENGINE SIZES (L) FUEL TYPE ¹		INTENDED SERVICE CLASS ²	ECS & SPECIAL FEATURES ³	DIAGNOSTIC 5	
2016	GCRXE06.4	GCRXE06.45Y0		Gasoline	Otto	HDO	TWC, HO2S, EGR, EGRC, SFI	OBD (P)	
PRIMARY ENGINE'S IDLE ADDITIONAL IDLE EMISSIONS CONTROL 4									
	N/A	I/A N/A							
ENGINE (L	NGINE (L) ENGINE MODELS / CODES (rated power, in hp)								
6.4	6.4 ESB / AA100, AA150, AA200, AA250, AA300, AA350, AA400, AA450, AA500, AA525, AA550, AA575, AA600, AA650 (373.9 for all codes)								
* *									
L=liter; hp= 1 CNG/LN 2 L/M/H H 3 ECS=em	horsepower; kw=k G=compressed/liqu DD=light/medium/ho hission control syste	ilowatt; hr lefied natu eavy heav em; TWC/	r=hour; ral gas; LPG=liquefi y-duty diesel; UB=ui OC=three-way/oxidiz	ed petroleum gas; E85=85% et ban bus; HDO=heavy duty Otto ing catalyst; NAC=NOx adsorp	hanol fuel; MF=mult o; tion catalýst; SCR-L	ti fuel a.k.a. BF J / SCR-N=seled	R 86.abc=Title 40, Code of Federal Regulation =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / – ammonia; W	/U (prefix) ≕warm-	

cos=emission control system; Iwc/co=trifee-way/oxidizing catalyst; NAL=NOX adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) =warm up catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/ super charger; CAC=charge air cooler; EGR / EGRC=exhaust gas recirculation / EGR cooler; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series;

ESS=engine shutdown system (per 13 CCR 1956.8(a)(6)(A)(1); 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C); APS = internal combustion auxiliary power system; ALT=alternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles); (2012-08-20)

EMD=engine manufacturer diagnostic system; OBD(F) / (P) / (\$)=full / partial / partial with fine / on-board diagnostic;

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	NMHC		NOx		NMHC+NOx		CO		PM		нсно	
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	¥
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.10	*	0.12	*	*	*	8.8	*	*	*	0.001	*
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: 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			
	CRX-ON	HWY-16-01	*			
In		002	CH			
g/bhp-hr	FTP	SET	CH₄	N₂O		
STD	*	*	*	*		
FCL	*	*	*	*		
EL	*	*	*	*		
CERT	*	*	*	*		

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 1971.1 (on-board diagnostic, full or partial compliance), 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.

Executed at El Monte, California on this

day of August 2015.

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