California Environmental Protection Agency		EXECUTIVE ORDER A-021-0650-1		
Ø≣ Air Resources Board	CUMMINS INC.	New On-Road Heavy-Duty Engines		

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	ENGINE FAMI	Y	ENGINE	FUEL TYPE	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES	DIAGNOSTIC 6
YEAR	Literite i finin		SIZES (L)	and the second second	PROCEDURE	CLASS 2	TBI, TC, CAC, ECM, EGR, TWC,	EMD.
2017	HCEXH0408E	BBA	6.7	CNG/LNG	Diesel	MHDD	HO2S	EIVID+
PRIMARY	ENGINE'S IDLE			A	DDITIONAL IDLE EN	NISSIONS CO	NTROL ⁵	_
	N/A N/A							
ENGINE (L)				ENGINE MO	DELS / CODES (rat	ed power, in	hp)	
6.7	ISB G 260 / 42	290;FR	94406 (260), ISE	3 G 240 / 4290;FR94	407 (240), ISB G	220 / 4290	FR94408 (220), ISB G 200 / 4290;F	R94409 (200)
=not appli L=liter, hp CNG/LI L/M/H H ECS=er up catalyst TBI=throttli super chan control mod	cable; GVWR=gross chorsepower, kw=kilt IG=compressed/lique IDD=light/medium/hea nission control system DPF=dieset particute b body fuel injection; 3 jeer, CAC=charge air uile; EM=engine mod	vehicle w owatt; hr- fied natur avy heavy h; TWC/C ate filter, SFI/MFI=s cooler; E ification;	eight rating; 13 CCR =hour; ral gas; LPG=liquefier /-duty diesel; UB=urb OG=three-way/oxidizin PTOX=periodic trap o sequential/multi port fi GR / EGR-C=exhaust 2 (prefix-D=arallel; (:	xyz=Title 13, California Col d petroleum gas; E85=85% an bus; HDO=heavy duty 0 g catalyst; NAC=NOx adsc xidizer; HO2S/O2S=heater el injection; DGI=direct ga gas recirculation / cooled E 2) (suffix)=in series;	de of Regulations, Sect ethanol fuel; MF=mull Dito; orption catalyst; SCR-t d/oxygen sensor; HAB soline injection; GCAR sGR; PAIR/AIR=pulse	tion xyz, 40 CF ti fuel a.k.a. BF S/AFS=heated (B=gaseous ca d/secondary air	R 86.abc=Title 40, Code of Federal Regulation: =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / – ammonia; M air-fuel-ratio sensor (a.k.a., universal or linear or rburetor, IDI/DDI=indirect/direct diesel injection injection; SPL=smoke puff limiter; ECM/PCM=	s, Section 86.abc; /U (prefix) =warm- xygen sensor); , TC/SC=turbo/ eengine/powertrain

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); EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 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	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	0.14	0,10	0.10	100 C /	1	15.5	15.5	0.01	0.01	1.00	
CERT	0.01	0.004	0.08	0.001			3.0	1.9	0.000	0.000		
NTE	0.	21	0.	.15		•	15	9,4	0.	02		•

g/bhp-hr=grams per brake horsepower-hour, FTP=Federal Test Procedure; SET= 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

BE IT FURTHER RESOLVED: That the listed engine family is certified to the Optional Low NOx Emission Standards as specified in 13 CCR 1956.8(a)(2)(A) and section 11.B.7 of the incorporated "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy Duty Diesel-Engines and Vehicles" adopted Dec. 12, 2002, as last amended Oct. 21, 2014.

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 Diesel-Engines and Vehicles" (HDDE Test Procedures) adopted Dec. 12, 2002, 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 HDDE 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 CERTIFICATE	OF CONFORMITY	PRIMARY INTENDE	D SERVICE CLASS	
	HCEXH04	08BBA-002	VOCATIONAL		
n	C	02	CH	N ₂ O	
g/bhp-hr	FTP	SET	CH4		
STD	576	*	0.10	0.10	
-CL	555		*	*	
FEL	572	*	0.90	*	
CERT	485		0.25	0.03	

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: That the listed engine family is certified to the Alternate Phase-in CO₂ Emission Standards as specified in 13 CCR 1956.8 and section 40 CFR 1036.150 (e) as incorporated in the "California Exhaust Emission Standards and Test Procedures for 2004 and Subsequent Model Heavy Duty Diesel-Engines and Vehicles" adopted Dec. 12, 2002, as last amended Oct. 21, 2014.

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 (engine manufacturer diagnostic) and 13 CCR 2035 et seq. (emission control warranty).

BE IT FURTHER RESOLVED: The listed engine family is conditionally certified pending submission and approval of manufacturer's tamper resistance method. The manufacturer has until June 30, 2016 to receive final approval from the Executive Officer. Failure to resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification would be deemed uncertified and subject to civil penalties pursuant to Health and Safety Code Section 43154.

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-021-0650 dated April 28, 2016.

Executed at El Monte, California on this _______ day of June 2016.

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