California Environmental Protection Agency CUMMINS INC.	EXECUTIVE ORDER A-021-0467 New On-Road Heavy-Duty Engines
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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-02-003;

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 FAMILY	ENGINE SIZES (L)	FUEL TYPE	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS	ECS & SPECIAL FEATURES <sup>3</sup> DDI, TC, CAC, ECM, EGR, OC,	
2008	8CEXH0661MAB	10.8	Diesel	Diesel	UB	PTOX	Exempt
ENGINE (	L)		ENGINE MODEL	S / CODES (rate	d power, in h	(q)	
10.8			ISM 330 / 2731;FR20134	(330), ISM 28	0 / 2731;FF	R20135 (291)	
*				*			
*				*			
*				*			
CNG/LI	=horsepower; kw=kilowatt; h NG=compressed/liquefied nati	r≕hour; ural gas; LPG≕liquef	·	-		85.abc=Title 40, Code of Federal Regulations, S bi fuel; DF=dual fuel; FF=flaxible fuel;	ection B6.abc;

 Envire noc-rightmediummeavy neavy-duty diesel; UB=broan ous; HLDG=neavy duty Otto;
 ECS=emission control system; TWC/OC=hree-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – armonia; WU (prefix) =warmup catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HO2S/O2S=heated/airytegen sensor; HAFS/AFS=heated/air/fue-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throtite body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=paseous carboretor; IDVDDI=indirect/direct diesel injection; TC/SC=turbo/ super charger; CAC=charge air cooler; EGR / EGR-C=exhaust gas redirculation / cooled EGR; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; ECM/PCM=engine/powertrain pontrol module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series;

ESS=engine shuldown system (per 13 CCR 1956.8(a)(6)(1): 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C); ALT=alternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempled per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles); (Rev.: 2007/12-20)

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO 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, EURO 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		со		PM		нсно	
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
TD	0.5	0.5	*	+	*		15.5	15.5	0.01	0.01	*	+
EL	*	*	*		2.5	2.5	*	*	*	*	*	*
CERT	0.01	0.01	*		2. <b>2</b>	1.7	0.00	0.00	0.002	0.001	*	*
NTE	0.6			*	3	3.1	19	9.4	0.	02		*

grbhp-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=NoI-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen;
C0=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

**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) and 13 CCR 2035 et seq. (emission control warranty).

**BE IT FURTHER RESOLVED:** The listed engine models are conditionally certified pending submission of additional information to justify the auxiliary emission control device (AECD) used for engine protection. The manufacturer must demonstrate that the use of the AECD is the minimum strategy necessary for engine protection. The manufacturer has until March 31, 2008 to resolve concerns on this conditional certification. This Executive Order is effective through March 31, 2008; engines produced after the aforementioned effective date are deemed uncertified

day of January 2008.

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 \_

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