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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				FUE: T/DE 1	STANDARDS	INTENDED	3	6					
YEAR	ENGINE FAN	IILY	ENGINE SIZES (L)	FUEL TYPE	& TEST	SERVICE	ECS & SPECIAL FEATURES	DIAGNOSTIC					
2008	8CEXH0408	BAF	6.7	Diesel	PROCEDURE	CLASS T	DĎÍ, TC, CAC, ECM, EGR, OC, PTOX	EMD					
	ENGINE'S IDLE ONS CONTROL			ADD	ADDITIONAL IDLE EMISSIONS CONTROL 5								
	30g	N/A											
ENGINE (	NGINE (L) ENGINE MODELS / CODES (rated power, in hp)												
6.7													
= 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=titer: hp=horsepower; kw=kilowatt; hr=hour;  CNG/LNG=compressed/fiquefied 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;													
up catalyst TBI=throttle super chan control mod ESS=ee	; DPF=diesel particu e body fuel injectlon; ger; CAC≐charge al duie; EM=engine mo ngine shutdown syste	ilate filter; SFI/MFI= r cooler; I odification; em (per 13	PTOX=periodic trap of sequential/multi port ( in incidential/multi periodical/multi periodical/mul	oxidizer; HO2S/O2S=healed/ox fuel injection; DGI=direct gasolii st gas recirculation / cooled EGR (2) (suffix)=in series; )(1); 30g=30 g/hr NOx (per 13 (	ygen sensor; HAF; ne injection; GCAR l; PAIR/AIR=pulsed CCR 1956.8(a)(6)(C	B/AFS=heated/a B=gaseous car l/secondary air	citive catalytic reduction – urea / ammonia; Mair-fuel-ratio sensor (a.k.a., universal or linear oburetor; IDVDDI=indirect/direct disest injection injection; SPL=smoke puff limiter; ECMPCM= at combustion auxiliary power system; ALT=al (e.g., Otto engines and vehicles);	oxygen sensor); ; TC/SC=lurbo/ =engine/powertrain					

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 heavy-duty 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
STD	0.14	0.14		•	*	*	15.5	15.5	0.01	0.01	*	•
FEL	*		1.75	1.75	1.7	1.7	*	*	*	*	*	*
CERT	0.01	0.001	1.62	1.49	1.7	1.5	0.1	0.01	0.001	0.000	+	*
NTE	0.21		2.19		2.1		19.4		0.02		*	

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:** Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.8.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

**BE IT FURTHER RESOLVED:** The listed engine models are conditionally certified pending final approval of "Certified Clean Idle" vehicle labels. The manufacturer has until May 31, 2008 to resolve concerns on this conditional certification. This Executive Order is effective through May 31, 2008; engines produced after this date are not covered by this Executive Order.



**CUMMINS INC.** 

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BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

**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).

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 April 2008.

Annette Hebert, Chief Mobile Source Operations Division

## **Engine Model Summary Template**

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 lbs/hr)@peak to		Emission ice Per S	
8CEXH0408BAF	3236;FR92821	ISB 260H/PX6 260H	260@2500	112	104	620@1 <b>60</b> 0	126	68`)/	DPI	<b>ү</b> ртох	, PC/M,
808XH04088AF	3238;FR91657	ISB 260/PX6 260	260@2500	123	104	<b>620@</b> 1600	126	68	TC	PTOX	, P¢M,
ECEXH0408BAF	3238;FR91666	ISB 240/PX6 240	240@2500	115	97	620@ <b>160</b> 0	126	68	CAC	РТОХ	, РСМ,
SCEXH0408BAF	3237;FR92011	ISB 260/PX6 260	260@2500	123	104	620@16 <b>00</b>	126	68	EGR	РТОХ	РСМ,
8CEXH0408BAF	3237;FR92167	ISB 240/PX6 240	240@2500	115	97	<b>6</b> 20@16 <b>0</b> 0	126	68 (	ECW	<b>РТО</b> Х	, PCM,
8CEXH0408BAF	3237;FR92021	ISB 240/PX6 240	240@2500	115	97	5 <b>60@</b> 1600	113	61	100	PTOX	PCM,
8CEXH0408BAF	3238;FR92020	ISB 240PX6 240	240@2500	115	97	560@1600	113	61	Prox	<b>Ртох</b>	, есм,
SCEXH0408BAF	3238;FR91656	ISB 220/PX6 220	220@2500	107	90	520@1600	106	57		P/TOX	, РСМ,
805×H0408BAF	3238;FR91655	ISB 220/PX6 220	200@2400	103	83	520@1600	106	57	• • • • • • • • • • • • • • • • • • • •	∳тох,	, РСМ,

PX6 for PACCAR

ATTACHMENT