

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 1	STANDARDS & TEST PROCEDURE	SERVICE CLASS	ECS & SPECIAL FEATURES IDLING EMISSIONS CONTROL					
			D:1			CDI MTOV					
2008	8CPXH0763E1A	12.5	Diesel	Diesel	HHDD	SPL, PTOX ESS					
ENGINE (L	-)		ENGINE MODEL	S/CODES (rate	d power, in h	p)					
12.5 See attachment for engine models and ratings											
+	1										
*	*										
*	•										
L=liter; hp= CNG/LN L/M/H H ECS=en up catalyst; TBI=throitle super charg control mod ESS=en	horsepower: kw-kilowatt; hiG-compressed/liquefied natu IDD-light/medium/heavy heav nission control system; TWC: DPF-ediesel particulate filler; body fuel injection; SFI/MFI-ler; CAC=charge air cooler; lule; EM-engine modification gine shuldown system (per 1:55.8(a)(8)(B) or for CNG/LNG	r=hour;  ural gas; LPG=liquef  ry-duly diesel; UB=u  OC=three-way/oxidi;  PTOX=periodic trag- sequential/multi port  Eq. 1 EGR-C=exhat;  2 (prefix)=parallel;  3 CCR 1956.8(a)(6)(6)	ted petroleum gas; E85=85% ethar rban bus; HDO=heavy duty Otto; ting catalyst; NAC=NOx adsorption oxidizer; HO25/025=heated/oxyg fuel injection; DGI=direct gasoline sts gas recirculation / cooled EGR; (2) {suffix)=in series;	nol fuel; MF=multi catalyst; SCR-U/ en sensor; HAFS/ injection; GCAR8 PAIR/AIR=pulsed/ R 1956.8(a)(6)(C):	fuel a.k.a. BF= SCR-N=selecti AFS=healed/ai =gaseous carb secondary air in	86.abc=Title 40, Code of Federal Regulations, Section 86.abc; bit fuel; DF=dual fuel; FF=flexible fuel; ive catalytic reduction – urea / ammonia; WU (prafix) =warm-r-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); uretor; JDIDD=Indirect/direct deset injection; TCISC=turbo/ ujection; SPL=smoke puff limiter; ECM/PCM=engine/powerfrain ve method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per					

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 [	NMI	HC	N	Оx	NMHC	#NOx		:0	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	*		1.16	1.16	1.3	1.3	*	k	*	*	*	*
CERT	0.03	0.04	1.04	0.9	1.1	0.9	2.1	0.1	0.004	0.002	*	*
NTE	0.21		1.74		2.0		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;

**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, as applicable:

- certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions 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 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; or
- 2. certified under 13 CCR 1956.8(a)(6)(D) [alternatives to main engine idling] shall have an engine shutdown system meeting the requirements in 13 CCR 1956.8(a)(6)(A). The auxiliary power system (APS) equipping each engine in this engine family shall meet the requirements in 13 CCR 2485(c)(3)(A) [internal combustion APS] and shall be provided with an approved "Verified Clean APS" label pursuant to 13 CCR 2485)c)(3)(D) [labeling] and section 35.B.4 of the incorporated HDDE Test Procedures. The "Verified Clean APS" label shall be affixed to the vehicle into which the engine is installed. See the Attachment for a description of the APS.

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 December 2007.

Annette Hebert, Chief

Mobile Source Operations Division

## SWONT

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of ECS age describe as follows!

		1	1		2	·		1	ı	ł	•	ATTACOMENT
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930	EM, DI, TC,	EM, DI, TC,	EM DI,/TC,	EM, bl. TC	EM, D, TC,	EM, ÓI.\TC.	EM, DI, TC,	EM, DI, TĠ,	EM/DI, TC)	EM, DI, TC,	EM, DI, TC,	PAPED) of motels
8.Fuel Rate: (lbs/hr)@peak torqu	113.6	116.6	122.2	113.6	125.7	130.3	113.6	116.6	122.2	125.7	130.3	TCE, CAC, SPL, SPL, SPL, SPL, SPL, SPL, SPL, SPL
7,Fuel Rate: mm/stroke@peak torque	282	289	303	282	311	323	282	289	303	311	323	
6.Torque @ RPM (SEA Gross)	1450@1200	1550@1200	1550@1200	1450@1200	1650@1200	1650@1200	1450@1200	1550@1200	1550@1200	1650@1200	1650@1200	
5.Fuet Rate: (bs/hr) @ peak HP (for diesels only)	161.2	156.8	161.2	161.2	156.8	161.2	161.2	156.8	161.2	164.9	163.6	
4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesel only) (for diesels only)	266	259	266	266	259	266	266	259	266	272	270	
3.BHP@RPM n (SAE Gross)	425@1800	425@1800	425@1800	425@1800	425@1800	425@1800	425@1800	425@1800	425@1800	445@1800	445@1800	
2.Engine Model	C13	C13	C13	C13	C13	C13	C13	C13	C13	C13	C13	
		57	58	Americal form a constitution and constitutional restaurable from the final restaurable from the constitution and constitution	60 60	61	62	63	64	65	99	
Engine Family 1.Engine Code	8CPXH0763E1A	8CPXH0763E1A	8CPXH0763E1A	3CPXH0763E1A	8CPXH0763E1A	8CPXH0763E1A	8CPXH0763E1A	8CPXH0763E1A	8CPXH0763E1A	8CPXH0763E1A	SCPXH0763E1A	

**Engine Model Summary Template**