

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 FAN	ENGINE FAMILY SIZES (L) 8CEXH0540LBC 8.8		FUEL TYPE	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6 EMD			
	DOEN LOE 40			01104110	PROCEDURE	CLASS 2	TBI, TC, CAC, ECM, EGR, TWC,				
2008	8CEXH0540			CNG/LNG	Diesel	MHDD	HO2S				
	PINE CONTROL	ADDITIONAL IDLE EMISSIONS CONTROL 5									
EXEMPT		N/A									
ENGINE (L)	ENGINE MODELS / CODES (rated power, in hp)									
8.8		ISL G 320 / 0887;FR92424 (320), ISL G 300 / 0887;FR92104 (300)									
8.8		ISL G 280 / 0887;FR92738 (280), ISL G 260 / 0887;FR92739 (260), ISL G 250 / 0887;FR92847 (250)									
*		*									
*		*									
L=liter; hp: CNG/Lit C	=horsepower; kw=k NG=compressed/liqu HDD=light/medium/h- mission control syste; DPF=diesel particus; per; CAC=charge ai dule; EM=engine module; EM=engine module;	ilowatt; hi lefied natu eavy heav em; TWC/ late filter; SFI/MFI= r cooler; E xdification;	r=hour; ral gas; LPG=liquefi y-duty diesel; UB=u OC=three-way/oxidiz PTOX=periodic trap sequential/multi port GGR / EGR-C=exhau 2 (prefix)=paraliel;	ed petroleum gas; E85=85% e rban bus; HDO=heavy duty Ott ing catalyst; NAC=NOx adsorp oxidizer; HO2S/O2S=heated/ot fuel injection; DGI=direct gaso	thanol fuel: MF=mult o; stion catalyst; SCR-U xygen sensor; HAF; line injection; GCAR R; PAIR/AIR=pulsec	fuel a.k.a. BF // SCR-N=selet S/AFS=heated/ B=gaseous car //secondary air	R 86.abc=Title 40, Code of Federat Regulations =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / – ammonia; W air-fuel-ratio sensor (a.k.a., universaf or linear or buretor; IDI/DDI=indirect/direct diesal injection; injection; SPL=smoke puff limiter; ECW/PCM=	/U (prefix) =warm- xygen sensor); : TC/SC=lurbo/			

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.).

5 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);

in g/bhp-hr	NMHC		NOx		NMHC+NOx		co		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	0.20	0.20	*	•	15.5	15.5	0,01	0.01	•	
FEL	•	•			•	*	•	*	*	*	•	+
CERT	0.13	0.04	0.10	0.01	*	•	1.2	0.4	0.009	0.000	*	•
NTE	0.21		0.30		*		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: 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.

This Executive Order hereby supersedes Executive Order A-021-0456 dated August 23, 2007.

Executed at El Monte, California on this ______ day of October 2008.

Annette Hebert, Chief

Mobile Source Operations Division