

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	ENGINE FAN	NLY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
TEAR					PROCEDURE	CLASS 2	DDI, TC, CAC, ECM, EGR, OC,	EMD			
2010	ACEXH0540LAR		8.9	Diesel	Diesel	UB	PTOX, SCR-U	EIVID			
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL			ADDITIONAL IDLE EMISSIONS CONTROL 5								
Exempt			N/A								
ENGINE (NGINE (L) ENGINE MODELS / CODES (rated power, in hp)										
8.9		ISL9 330 / 3123;FR92595 (310), ISL9 280 / 3123;FR92596 (280), ISL9 Hybrid / 3123;FR93246 (310)									
*											
*			_		*						
*		•									
i=liter; hp: 1 CNG/L? 2 L/M/H I: 3 ECS=er up catalyst; TBI=throttle super charge control mode ESS=er (per 13 CC)	with a more power; kwith MG=compressed/liquid HDD=light/medium/h mission control syste; DPF=diesel particle body fuel injection; ger; CAC=charge aidule; EM=engine mingine shutdown syst R 1956.8(a)(6)(D): IR	ilowatt; hi lefied natu eavy heav em; TWC// ulate filter; SFI/MFI= r cooler; E odification; em (per 13 Exempt=e	r=hour, rral gas; LPG=liquef ry-duty diesel; UB=u OC=three-wayloxidi PTOX=periodic trap; sequential/multi port EGR / EGR-C=exha; 2 (prefix)=parallel; 3 CCR 1956.8(a)(6)(, xempted per 13 CCR	ied petroleum gas; E85=85% eth rban bus; HDO=heavy duty Otto ting catalyst; NAC=NOx adsorpti o oxidizer; HO2S/O2S=heated/ox, fuel injection; DGI=direct gasoli st gas recirculation / cooled EGF (2) [suffix)=in series; A(1); 30g=30 g/hr NOx (per 13 d R 1956.8(a)(6)(B) or for CNG/LNC	nanol fuel; MF=mult; con catalyst; SCR-L tygen sensor; HAF- ne injection; GCAR t; PAIR/AIR=pulsec CCR 1956.8(a)(6)(C Guel systems; N/A	if fuel a.k.a. BF I / SCR-N=selet S/AFS=heated/s B=gaseous car d/secondary air); APS =international policable	R 86.abc=Title 40, Code of Federal Regulations =bi fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction – urea / – ammonia; W air-fuel-ratio sensor (a.k.a., universal or linear o buretor; IDI/DDI=indirect/direct diesel injection; injection; SPL=smoke puff limiter; ECM/PCM= al combustion auxiliary power system; ALT=alt e (e.g., Otto engines and vehicles);	IU (prefix) =warm- xygen sensor); : TC/SC=turbo/ engine/powertrain			
(per 13 CC	R 1956.8(a)(6)(D); I	Exempt=e	xempted per 13 CCF		3 fuel systems; N/A	=not applicable		emative method			

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 g/bhp-hr	NMHC		NOx		NMHC+NOx		СО		PM		нсно	
	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	*	*	0.29	0.29	*	*	_ * _	*	*	*	*	*
CERT	0.003	0.000	0.20	0.14	*	*	0.0	0.0	0.000	0.000	*	*
NTE	0.21		0.44		*		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.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.

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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 March 2010.

Annette Hebert, Chief Mobile Source Operations Division