

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 FAM	ENGINE FAMILY		FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC <sup>6</sup> EMD		
2010	TEAR		SIZES (L) 6.7	Diesel	PROCEDURE	CLASS * UB-Hybrid	DDI, TC, CAC, ECM, EGR, OC, PTOX, SCR-U			
PRIMARY ENGINE'S IDLE		ADDITIONAL IDLE FMISSIONS CONTROL 5								
EXEMPT		N/A								
ENGINE (L) ENGINE MODELS / CODES (rated power, in hp)						hp)				
6.7		ISB6.7 280 / 3073;FR92502 (270)								
*		*								
*	****	*								
*	<del></del>	•								
L=liter; hp: CNG/LI L/M/H H ECS=er up catalyst; TBI=throtter super character control mod ESS=er (per 13 CC	=horsepower; kw=ki NG=compressed/liqu HDD=light/medium/hi mission control syste . DPF=diesel particus s body fuel injection; ger; CAC=charge aid tule; EM=engine mon ngine shutdown syste R 1955.8(a)(6)(D); E	lowatt; he efied natu eavy heav m; TWC// late filter; SFI/MFI= cooler; £ dification; em (per 13 Exempt≃e:	=hour; ral gas; LPG=liquef y-duty diesel; UB=u DC=three-way/oxidi; PTOX=periodic trar; sequential/multi por GR / EGR-C=exha; 2 (prefix)=parallel; s CCR 1956.8(a)(6)(; xempted per 13 CCI;	ied petroleum gas; E85=85% ath  irban bus; HDO=heavy duty Otto:  ting catalyst; NAC=NOx adsorptit  o oxidizer; HO25/O25=heated/ox  fuel injection; DGI=dfreet gasoiir  ust gas recirculation / cooled EGR  (2) (suffix)=in series;  Alf(1): 30a=30 g/nr NOx (per 13 C	anol fuel; MF=multon catalyst; SCR-Lygen sensor; HAF-te injection; GCAR; PAIR/AIR=pulsecticR 1956.8(a)(6)(0) fuel systems; N/A	i fuel a.k.a. BF  // SCR-N=selet S/AFS=heated/. B=gaseous car V/secondary air  // APS =intern. =not applicable	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/IDDI=indirect/direct diesel injection; injection; SPL=smoke puff limiter; ECM/PCM= al combustion auxiliary power system; ALT=alt i (e.g., Otto engines and vehicles);	/U (prefix) ≔warm- xygen sensor); ; TC/SC=turbo/ -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		CO		PM		нско	
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	+	*	0.33	0.33	*	*	*	*	*	*	*	*
CERT	0.03	0.004	0.20	0.12	*	*	0.00	0.00	0.007	0.000	*	*
NTE	0.21		0.50		*		19.4		0.02		*	

4 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.

BE IT FURTHER RESOLVED: The listed engine models have been certified to operate in the primary intended service class for urban buses with the emission compliance useful-life of 435,000 miles, 10 years, or 22,000 hours, whichever occurs first. The listed engine models were designed by the engine manufacturer with an emissions compliance period of 185,000 miles. To demonstrate the useful life emissions compliance of the intended service class of an urban bus, the engine manufacturer shall provide a required service to the engine at, or about, 185,000 and 370,000 miles of the urban bus. The required service shall include a replacement engine, related parts and labor.

BE IT FURTHER RESOLVED: Each replacement engine may be: 1) a newly California certified urban bus engine of the model year in which the service interval occurs, 2) a new replacement engine in all material respects the same as the engines listed in this Executive Order, or 3) a newly remanufactured engine conforming to all specifications of the engines listed in this Executive Order or conforming to all specifications of newer model-year engines certified to the urban bus primary intended service class.

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 2010.

Annette Hebert, Chief

**Mobile Source Operations Division** 

## **Engine Model Summary Template**

	9.Emission Control	(lbs/hr)@peak torqueDevice Per SAE J1930	SCRES-PECTX.
	8.Fuel Rate:	(lbs/hr)@peak torqu	600 133 , 72 SCRS-PEC
7.Fuel Rafe:	mm/stroke@peak	torque	133
	6.Torque @ RPM	(SEA Gross)	660@1600
5.Fuel Rate:	(lbs/hr) @ peak HP	(for diesels only)	113
4.Fuel Rate:	mm/strake @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM mm/stroke@peak	(for diesel only)	ACEXH0408BAN 3073;FR92502 ISB6.7 280 270@2600 128
	3.BHP@RPM	(SAE Gross)	270@2600
		2.Engine Model	ISB6.7 280
		1.Engine Code	3073;FR92502
		Engine Family 1. Engine Code 2. Engine Model	ACEXH0408BAN 3073;FR92502

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