

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	INTENDED SERVICE CLASS ²	ECS & SPECIAL FEATURES ³
			Ultra Low Sulfur Diesel (<15 ppm Sulfur)			
2006	6CEXH0359BAC	5.9	Ultra Low Sulfur Diesel (<15 ppm Sulfur)	Diesel	MHDD	ECM, DDI, TC, CAC, CTOX
ENGINE (L)		ENGINE MODELS / CODES (rated power, in hp)				
5.9		ISB 260H / 0429;FR91894 (260)				

^{*} =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; ¹ l=liter; hp=horsepower; kw=kilowatt;
² CNG/LNG=compressed/liquefied 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;
³ L/MH HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;
ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DPFF=diesel particulate filter; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SF/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; ID/DDI=indirect/direct diesel injection; TC/SC=turbo/super charger; CAC=charge air cooler; EGR=exhaust gas recirculation; PAIR/AIR=pulsed/secondary air injection; SPL=sмоke puff limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; CTOX=Continuous Trap Oxidizer 2 (prefix)=parallel; (2) (suffix)=in series; (2005sept6)

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.1 (urban bus) or 13 CCR 1956.8 (other than urban bus); 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, in g/bhp-hr, 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 1956.1 or 13 CCR 1956.8 are in parentheses.)

	NMHC		NOx		NMHC+NOx		CO		PM		HCHO	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.5	0.5	*	*	2.5	2.5	15.5	15.5	*	*	*	*
FEL	*	*	2.4	2.4	*	*	*	*	0.01	0.01	*	*
CERT	0.1	0.03	2.3	*	2.4	2.1	0.00	0.00	0.00	0.01	*	*
NTE	0.625		3.0		3.125		19.375		0.0125		*	

¹ g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HG=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

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).


BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above 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 all compliance purposes. However, engines in this engine family shall not participate in any averaging, banking, or trading (ABT) programs.

BE IT FURTHER RESOLVED: That the listed engine models are conditionally permitted under California Interim Certification Procedures for 2004 and Subsequent Model Hybrid-Electric Vehicles, in the Urban Bus and Heavy-Duty Vehicle Class, to be used in the two-party certification of hybrid electric urban buses for sale to transit districts that are exempted by the Executive Officer under 13 CCR Section 2023.1(c)(9). The permission is conditional on final approval by the Office of Administrative Law of the amendments to the Fleet Rule for Transit Agencies and New Requirements for Transit Fleet Vehicles (13 CCR Sections 1956.1, 2023, and 2023.1-2023.4) that were approved by the Board at a February 24, 2005 public hearing. In the event that the amendments do not become effective, engines in this engine family that are used in hybrid electric buses will be deemed uncertified.

BE IT FURTHER RESOLVED: That the above-described certification is also subject to the following terms, limitations and conditions: (i) the manufacturer must take appropriate measures to ensure that all vehicles equipped with engines covered by this Executive Order bear appropriate labels in the vehicle fuel tank filler area and the driver's dashboard area disclosing the low sulfur (15 ppm maximum) fuel requirement, (ii) the manufacturer must take appropriate measures to ensure that all vehicles equipped with engines covered by this Executive Order are sold only to fleets with central fueling capability for low sulfur diesel fuel, and (iii) the manufacturer must require these fleet owners to sign agreements which require the fleet owner to use appropriate low sulfur diesel fuel and stipulate that the fleet owner is at risk of voiding the warranty for use of improper diesel fuel.

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 21st day of September 2005.


Allen Lyons, Chief
Mobile Source Operations Division