

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 BZ9XE06.0C1A		ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
2011			6.0	CNG	Otto	CLASS THOO	ECM, TWC, 2HO2S, SFI	N/A				
PRIMARY ENGINE'S IDLE EMISSIONS CONTROL  ADDITIONAL IDLE EMISSIONS CONTROL												
ENGINE (	ENGINE MODELS / CODES (rated power, in hp)											
6.0		Van / BZ9XE06.0C1A (265)										
*												
*		<del></del>										
L=litter, hp=1 CNG/LN CNG/LN L/M/H H ECS=en up catalyst; TBI=throttle super charg control mod ESS=en	chorsepower, kweki  Cocompressed/liqu  DD=light/medium/he  inssion control syste  DPF=diesel particu  body fuel injection;  ier, CAC=charge air  ule; EM=engine mo  gine shutdown syste	ilowatt; hi efied natu eavy heav m; TWC/d late filter; SFI/MFI= cooler; E dification; em (per 13	rehour, ral gas; LPG=liquef, y-duty diesel; UB=u OC=three-way/oxidiz PTOX=periodic trap requential/multi port CGR / EGR-C=exhau 2 (prefix)=parallel; 3 CCR 1956.8(a)(6)(4)	ed petroleum gas; E85=85% ethrban bus; HDO=heavy duty Otto ing catalyst; NAC=NOx adsorpti oxidizer; HO2S/O2S=heated/ox fuel injection; DGI=direct gasolir st gas recirculation / cooled EGR (2) (suffix)=in series; \(\)(1); 30g=30 g/hr NOx (per 13 0)	anol fuel; MF=mult on catalyst; SCR-L ygen sensor; HAF; ne injection; GCAR; PAIR/AIR=pulsec CCR 1956.8(a)(6)(C	i fuel a.k.a. BF: // SCR-N=selections/AFS=heated/a B=gaseous carl //secondary air i // APS=interna	R 86.abc=Title 40, Code of Federal Regulation  bi fuel; DF=dual fuel; FF=flexible fuel;  tive catalytic reduction – urea / – ammonia;  pir-fuel-ratio sensor (a,k.a., universal or linear  buretor; IDI/DDI=indired/direct disest injection;  SPL=smöke puff limiter; ECM/PCI  al combustion auxiliary power system; ALT=  (e.g., Otto engines and vehicles);	WU (prefix) =warm- oxygen sensor); ort-C/SC=turbo/ M=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 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	*	0.20	•	*	*	14.4	*	0.01	•	0.01	*
FEL	*	*	*	*	*	*	*	*	•	*	*	*
CERT	0.11	*	0.08	*	*	*	6.3	*	0.01	*	0.002	*
NTE	*		*		*		*		*		*	

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.

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);

Executed at El Monte, California on this \_\_\_\_\_ day of March 2011.

Annette Hebert, Chief

**Mobile Source Operations Division**