BAYTECH CORPORATION

EXECUTIVE ORDER A-330-0192 New On-Road Heavy-Duty Engines

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	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
2008 8BYTH08.10		8.1	CNG	Otto	HDO	2TWC, SFI, 2H02\$	N/A				
PRIMARY	ENGINE'S IDLE	0.1	ADI	OITIONAL IDLE EN	IISSIONS CO	NTROL 5					
Limooro	N/A	N/A									
ENGINE (וו		ENGINE MOD	ELS / CODES (ra	ted power, in	hp)					
8.1	/			GM 8.1L / 1 (2	33)						
							. Castion 96 obs:				
L=liter; hp CNG/L L/M/H 3 ECS=e up catalysi TBI=throtti super char control mo 5 ESS=e tper 13 CC	i=horsepower; kw=kilowat NG=compressed/liquefied HDD=light/medlum/heavy I imission control system; T' i; DPF=diesel particulate fie e body fuel injection; SFI/I ger; CAC=charge air cool dute; EM=engine modifica normal shutdown system (p 2R 1956.8(a)(6)(D); Exem	i; hr=hour; natural gas; LPG=liquefie neavy-duty diesel; UB=urb WC/OC=three-way/oxidizir Itler; PTOX=penodic trap of MFI=sequential/multi port if er; EGR / EGR-C=exhaus tion; 2 (prefix)=parallel; (er 13 CCR 1956.8(a)(6)(A) pt=exempted per 13 CCR	d petroleum gas; E85-85% e nan bus; HDO-heavy duty Ot ng catalyst; NAC=NOx adsorp xidizer; HOZS/O2S=heated/ uel injection; DGI=direct gast t gas recirculation / cooled EG 2) (suffix)=in series;	thanol fuel; MF=inul to; btion catalyst; SCR-l bxygen sensor; HAF bline injection; GCA BR; PAIR/AIR=pulse CCR 1956.8(a)(6)(4) NG fuel systems; N/A	ii fuel a.k.a. BF J / SCR-N=sele S/AFS=heated/ RB=gaseous car d/secondary air C): APS =interm A=not applicable	R 86.abc=Title 40, Code of Federal Regulations fuel; DF=dual fuel; FF=flexible fuel; ctive catalytic reduction — urea / — ammonia; air-fuel-ratio sensor (a.k.a., universal or lineatorretor; IDI/DDT=indirect/direct diesel injection; SPL=smoke puff limiter; ECM/PC al combustion auxiliary power system; ALT= e (e.g., Otto engines and vehicles);	WU (prefix) =warm- ir oxygen sensor); ion; TC/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		CO		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	*		*		*	14.4	*	0.01	*	0.01	*
FEL	± ±		0.35	*	0.37	*	*	*	*	*	*	*
CERT	0.00		0.30		0.30	*	2.1	*	0.001	*	0.001	*
NTE				•		*		*		*		k

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-6-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;

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: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

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 April 2008.

). Thulver Annette Hebert, Chief Mobile Source Operations Division