BAYTECH CORPORATION

EXECUTIVE ORDER A-330-0211
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 | INTENDED SERVICE | ECS & SPECIAL FEATURES 3 | DIAGNOSTIC 6 | | | |
|---|--|---|---|---|---|--|--|--|--|--|--|
| 2009 | 9BYTE08.1 | C12 8.1 | | CNG | PROCEDURE | HDO | TWC, SFI, 2HO2S | N/A | | | |
| PRIMARY ENGINE'S IDLE EMISSIONS CONTROL | | | | | | | | | | | |
| N/A N/A | | | | | | | | | | | |
| ENGINE (| L) | | | ENGINE MOD | ELS / CODES (ra | ted power, in h | p) | | | | |
| 8.1 | GM 8.1L / 1 (256) | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | , | | | | | |
| CNG/LI LIWH H ECS-er up catalyst; TBI=throttle super charg control mod ESS-er (per 13 CC) | NG=compressed/liqu IDD=light/medium/h mission control syste DPF=diesel particu body fuel injection; per: CAC=charge al iule; EM=engine mo gine shutdown syste R 1956.8(a)(6)(D): E | eavy heavy em; TWC/K date filter; SFI/MFI=: r cooler; E dification; em (per 13 Exempt=ex | ral gas; LPG=liqueficy-duty diesel; UB=ur DC=three-way/oxidizi PTOX=periodic trap sequential/multi port iGR / EGR-C=exhaus 2 (prefix)=parallel; CCR 1956.8(a)(6)(A empled per 13 CCR | ed petroleum gas; E85=85% et ban bus; HDO=heavy duty Ottu ng catalyst; NAC=NOx adsorpioxidizer; HO2S/O2S=heated/ocidelinjector; G95=100 petroleum | hanof fuel; MF≍multi b; tion catalyst; SCR-U xygen sensor; HAFS ine injection; GCARI R; PAIR/AIR=pulsed CCR 1956.8(a)(6)(C) Gfuel systems: N/A | fuel a.k.a. BF=b / SCR-N=selectiv /AFS=heated/air B=paseous carbu /secondary air inj APS =internal of the pase | 86.abc=Tille 40, Code of Federal Regulation if uel; DF=dual fuel; FF=flexible fuel; ve catalytic reduction – urea / – ammonia; fuel-ratio sensor (a.k.a., universal or linear iretor; IDVDDI=indirect/direct diesel injection combustion auxiliary power system; ALT=1.g., Otto engines and vehicles); | WU (prefix) =warm- r oxygen sensor); nr; TC/SC=turbo/ M=engine/powentrain | | | |

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 | | РМ | | нсно | |
|----------------|------|------|------|------|----------|------|------|------|-------|------|-------|------|
| | FTP | EURO | FTP | EURO | FTP | EURO | FTP | EURO | FTP | EURO | FTP | EURO |
| STD | * | * | • | * | * | * | 14.4 | * | 0.01 | * | 0.01 | * |
| FEL | 0.23 | + | 0.32 | * | * | * - | * | * | * | * | * | * |
| CERT | 0.20 | • | 0.27 | * | * | * | 5.4 | * | 0.003 | * | 0.002 | * |
| NTE | * | | * | | + | | * | | 0.000 | k | 0.002 | |

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=Nol-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.

Executed at El Monte, California on this ______ day of March 2009.

Annette Hebert, Chief

Mobile Source Operations Division