

DETROIT DIESEL CORPORATION

EXECUTIVE ORDER A-290-0111-3 New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board (ARB) by Health and Safety Code (HSC) Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order (EO) G-02-003; and

Pursuant to the December 15, 1998 Settlement Agreement (SA) between ARB and the manufacturer, and any modifications thereof to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That 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 SIZE (liter)	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas)	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS (L/M/H HDD=ilght/medium/heavy heavy-dut [HD] diesel; UB=urban bus; HDO=HD Otto				
2003	3DDXH08.5FJJ	8.5	CNG	Diesel	UB				
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		ENGINE MODELS / CODES (rated power in horsepower, hp)							
CARB, OC, TC, CAC, PCM		Series 50 : 1450 (275 hp); 1452 (330 hp)							
gas recircula 2 (prefix)=pa	ation AIR=secondary air	njection PAIR	way/oxidizing catalyst WU (prefix) =warm-up cat. iaIMFI DDI/IDI=direct /indirect diesel injection Tr r=pulsed AIR SPL=smoke puff limiter ECWPCM- carbon NMHC=non-methane HC Nox=oxides of rsepower-hour PDF = Particulate Trap Filter C	C/SC=turbo/super ch rengine /powertrain c	arger CAC=charge air cooler EGR=exhaust				

The following are the exhaust emission standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT), in g/bhp-hr, for this engine family under the "Federal Test Procedure" (FTP) (Title 13, California Code of Regulations, (13 CCR) Section 1956.1 (urban bus) or 1956.8 (other than urban bus)), and under the "Euro" III Test Procedure" (EURO) in the Settlement Agreement, including EURO's "Not-to-Exceed" standard(s). "Diesel" CO certification compliance may have been demonstrated pursuant to Code of Federal Regulations, Title 40, Part 86, Subpart A, Section 86.091-23(c)(2)(i) 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 Section 1956.1 or 1956.8 are in parentheses.)

			EURO'	S NOT-TO	-EXCEED	STD	NMHC:	*	NOx: *		NMHC+NC)x: 1.5	PM:	0.0125
* = not	HC		NMHC		NOx		NMHC+NOx		СО		PM		нсно	
applicable	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
(DIRECT) STD		*	*	*	. *		1.2	1.2	15.5	15.5	0.01	0.01		*
AVERAGE STD	*	*	*	*	*	*	*	•		*	•	•	*	+
FEL	*	•		*	*	*	*	*			*	•	*	+
CERT	*	*	*	*	*	*	1.0	0.8	0.03	0.00	0.01	0.01	*	+

BE IT FURTHER RESOLVED: That 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: That the listed engine models have been certified to the FTP optional NMHC+NOx, or NOx as applicable, and PM emission standard(s) listed above pursuant to 13 CCR Sections 1956.1 or 1956.8.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR Sections 1965 (emission control labels), and 2035 et seq. (emission control warranty).

BE IT FURTHER RESOLVED: That the listed engine models are conditionally certified subject to the following conditions: (1) The SA is in effect, and (2) The manufacturer is in compliance with all applicable California emission regulations, and all SA's applicable requirements and any modifications thereof.

Engines certified under this Executive Order shall conform to all applicable California emission regulations, and all SA's applicable requirements and any modifications thereof.

This Executive Order hereby supersedes Executive Order A-290-0111-2 dated February 28, 2003.

Allen Lyons, Chief 🗸

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 25th day of March 2003.

Mobile Source Operations Division