

File

Pursuant to the authority vested in the Air Resources Board 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 G-02-003;

**IT IS ORDERED AND RESOLVED:** That the engine and emission control systems produced by the manufacturer are certified as described below for use in diesel or incomplete medium-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) from 8,501 to 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	EMISSION STANDARD CATEGORY	ON-BOARD DIAGNOSTIC COMPLIANCE
2003	3FMXH06.8TH5	6.8	Gasoline	Otto	ULEV	Full
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>		<b>ENGINE MODELS / CODES (rated power in horsepower, hp)</b>				
TWC, 2HO2S, HO2S, SFI		3F718M0B05, 3F717M0B05, 3F718R0B05, 3F717R0B05 (310 hp) 3F718S0B05, 3F717S0B05, 3F718T0B05, 3F717T0B05 (310 hp) 3E418Q0B05, 3E418R0B05 (305hp)				
<small>           TWC/OC=three-way/oxidizing catalyst WU (prefix)=warm-up cat. O2S=oxygen sensor HO2S=heated O2S TBI=throttle body fuel injection MFI=multi port fuel injection            SFI=sequentialMFI DI/IDI=direct /indirect diesel injection TC/SC=turbo/super charger CAC=charge air cooler EGR=exhaust gas recirculation AIR=secondary air injection            PAIR=pulsed AIR SPL=smoke puff limiter ECM/PCM=engine /powertrain control module EM=engine modification 2 (prefix)=parallel (2) (suffix)=in series         </small>						

The following are the exhaust emission standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) in grams per brake horsepower-hour (g/bhp-hr) for this engine family for non-methane hydrocarbon (NMHC) plus oxides of nitrogen (NOx) (NMHC+NOx), NMHC, carbon monoxide (CO) [except that "diesel" CO certification compliance may have been demonstrated pursuant to Code of Federal Regulations, Title 40, Section 86.091-23(c)(2)(i) in lieu of testing], particulate matter (PM), and formaldehyde (HCHO) (Title 13, California Code of Regulations, (13 CCR) Section 1956.8): (For flexible- and dual-fueled engines, the CERT values in brackets [ ] are those when tested on conventional test fuel.)

* = not applicable	[g/bhp-hr]	NMHC+NOx	NMHC	CO	PM	HCHO
(DIRECT) STANDARD		2.5	*	14.4	*	0.050
CORPORATE AVERAGE STANDARD		*	*	*	*	*
FAMILY EMISSION LIMIT (FEL)		*	*	*	*	*
CERTIFICATION LEVEL		1.0	*	3.9	*	0.003

**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 optional emission standards and test procedures in 13 CCR Section 1956.8 applicable to diesel or incomplete medium-duty vehicles with a GVWR from 8,501 to 14,000 pounds and, therefore, shall be subject to 13 CCR Section 2139(c) (in-use testing of engines certified for use in diesel or incomplete medium-duty vehicles with a 8,501-14,000 pound GVWR).

**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), 1968.1 (on-board diagnostic, full or partial compliance), and 2035 et seq. (emission control warranty).

Engines certified under this Executive Order shall 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 3<sup>RD</sup> day of July 2002.

  
 Allen Lyons, Chief  
 Mobile Source Operations Division

2003 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
 INCOMPLETE or MEDIUM-DUTY VEHICLE ENGINES  
 CERTIFIED USING HEAVY DUTY ENGINE TEST PROCEDURES

Manufacturer: Ford Motor Company Engine Family: 3FMXH06.8TH5  
 Displacement: 6.8L / Liter 417 / Cubic Inches  
 All Eng Codes in Eng Family: CA\_\_ 49S\_\_ 50S\_\_ X\_\_  
 Fuel Type(s): Dedicated X Flex Fuel\_\_ Dual-Fuel\_\_ Bi-Fuel\_\_ Gasoline X CNG\_\_  
 LNG\_\_ LPG\_\_ M85\_\_ M100\_\_ Other (specify)\_\_\_\_\_  
 Maximum Rated Power: 310 HP @ 4250 RPM F-Series Incomplete Engine Configuration V10  
 Maximum Rated Power: 305 HP @ 4250 RPM E-Series Incomplete Engine Configuration V10  
 Exhaust Control System and Special Features TWC, 2HO2S, HO2S, SFI  
 (Use abbreviations per SAE J1930 SEP91)

Engine Model (Engine Code)	Ign. System or PCM Part No.	Fuel System Injtr Part No.	Catalyst Part No.
	-12A650-	-9F593-	-5E212-

Initial Certification

<u>F-350 Chassis Cab (40gal)<sup>1</sup></u>			
3F718M0B05	3C3A-XB	XL2E-CA	YC3C-CC
3F717M0B05 (w/PTO)	3C3A-KB	"	"
<u>F-250/F-350 Long Bed Delete (37.4gal)<sup>2</sup></u>			
3F718R0B05	3C3A-ABB	"	"
3F717R0B05 (w/PTO)	3C3A-NB	"	"
<u>F-250/F-350 Short Bed Delete (29.6gal)<sup>2</sup></u>			
3F718S0B05	3C3A-ACB	"	"
3F717S0B05 (w/PTO)	3C3A-PB	"	"
<u>F-350 Chassis Cab (18.4gal)<sup>1</sup></u>			
3F718T0B05	3C3A-ADB	"	"
3F717T0B05 (w/PTO)	3C3A-RB	"	"
<u>E-350 Cutaway (37.0gal)<sup>1</sup></u>			
3E418Q0B05	3C2A-LB	XL2E-CA	YC2C-GA
<u>E-350 Cutaway (55.0gal)<sup>3</sup></u>			
3E418R0B05	3C2A-MB	"	"

<sup>1</sup> EVAP family 3FMXE0155BAH  
<sup>2</sup> EVAP family 3FMXE0155BBH  
<sup>3</sup> EVAP family 3FMXE0310BAH

Comments:

Test Group: 3FMXH06.8TH5  
 Issued: May 23, 2002  
 Revised: