FORD MOTOR COMPANY

EXECUTIVE ORDER A-010-1576 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	SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
1 12711					PROCEDURE	CLASS	SFI, HO2S, TWC, 2HAFS				
2011	BFMXE06.8	BW5	6.8	Gasoline	Otto	HDO	3F1, 11023, 1WC, 2HAI'S	EIVID			
PRIMARY	ENGINE'S IDLE	ADDITIONAL IDLE EMISSIONS CONTROL 5									
EMISSIONS CONTROL		ADDITIONAL IDLE EMISSIONS CONTROL									
N/A		N/A									
ENGINE (L	-)	ENGINE MODELS / CODES (rated power, in hp)									
6.8	F-450/550 Chassis Cab: BFA18N0505, BFA18N0506, BFA18N0507, BFA18Y0505, BFA18Y0506, BFA18Y0506; BFA18R0506; Motor Home: BFA18Q0505, BFA18Q0506, BFA18Q0507 (362 for all co										
*											
=liter; hp= CNG/LN L/M/H H	-horsepower, kw≖k IG≃compressed/liqu IDD=light/medium/h	ilowatt; hi lefied natu eavy heav	r=hour; ral gas; LPG=liquef y-duty diesel; UB=u	ied petroleum gas; E85=85% eth rban bus; HDO=heavy duty Otto;	anol fuel; WF=mult	ti fuel a.k.a. BF	R 86.abc=Title 40, Code of Federal Regulatio				
up catalyst; TBI=throttle super chargi control modi ESS=en (per 13 CCF	DPF=diesel particument body fuel injection; ler; CAC=charge air ule; EM=engine mogine shutdown syst R 1956.8(a)(6)(D); I	late filter, SFI/MFI= r cooler; I odification; em (per 13 Exempt=e	PTOX=periodic trap sequential/multi port EGR / EGR-C=exhau 2 (prefix)=parallel; 3 CCR 1956.8(a)(6)(a xempted per 13 CCI	o oxidizer, HO2S/O2S=heated/ox truel injection; DGI=direct gasolif ust gas recirculation / cooled EGR (2) (suffix)=in series; A)(1); 30g=30 g/hr NOx (per 13 C	/gen sensor; HAFs le injection; GCAR PAIR/AIR=pulsec CR 1956.8(a)(6)(C fuel systems; N/A	S/AFS=heated// LB=gaseous car d/secondary air L); APS =international L=not applicable	ctive catalytic reduction - urea / - ammonia; air-fuel-ratio sensor (a.k.a., universal or linear thuretor, IDI/DDI=indirect/direct diesel injectio injection; SPL=smoke puff limiter; ECM/PCII al combustion auxiliary power system; ALT=: (e.g., Otto engines and vehicles);	oxygen sensor); in; TC/SC=turbo/ #=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	NMHC		NOx		NMHC+NOx		CO		PM		НСНО	
g/bhp-hr	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	0.07		0.12	•	*	* .	14.4	*	*	*	0.000	*
NTE				*		*		*		*	100	Ar .

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.: 2007-02-25)

BEIT 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 January 2010.

Annette Hebert, Chief

Mobile Source Operations Division