State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-474 Relating to Certification of New Heavy-Duty Motor Vehicle Engines

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Ford Motor Company 1991 model-year gasoline engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds:

Engine Family		isplacement <u>s (Cubic Inches)</u>	Exhaust Emission Control Systems and Special Features
MFM05.8BSA6	5.8	(351)	Secondary Air Injection Exhaust Gas Recirculation Heated Oxygen Sensor Three-Way Catalyst Multipoint Electronic Fuel Injection

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family:

Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	
1.1	14.4	5.0	

The following are the certification emission values for this engine family:

	Hydrocarbons	Monoxide	Nitrogen Oxides	
Engine Family	<u>gm/bhp-hr</u>	gm/bhp-hr	gm/bhp-hr	
MFM05.8BSA6	0.5	9.4	3.4	

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Health and Safety Code Section 43205.5 and Title 13, California Code of Regulations, Section 2036).

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 order and attachments.

Executed at El Monte, California this 12

day of December, 1990.

R/B. Summerfield

Assistant Division Chief Mobile Source Division

1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company				Engine Family <u>M</u>			FM05.8BSA6 (L5.8A)			
Evaporative Family <u>HM</u>				Engine 1	Гуре	<u>v-</u>	V-8			
				I	iters ((CID)	5.	8L (351)		
ΑB	BREVIATIONS:									
_	Ignition Sys	stem	Exhaust	Emissions	Contro]	Sys	tem_	Fuel	System	
EI-Electronic Ignition PCME-Powertrain Control Module Modu				ngine Cools xhaust Gas ngine Modis eated Oxyge nock Sensor anifold Abs ressure Sensor exidation Coo exygen Sensor econdary A econdary A econdary A econdary A frap Oxidiz Throttle Po Three Way Coo Plus Oxidat Varm Up Oxi	ant Temp Sensor Recirculation fication Gen Sensor Resolute Resolut			conic Injection (Diesel) cooler or cooler ect Diesel tion coint Election charged ntial point ronic Fuel tion charged, o Air (Diese charged, Aio Water (Diese Body ronic Fuel	ronic	
Ā	EHICLE MODELS:	E250/E35 F250/F35		d or Cutawa	y					
Ē	Engine: Front XXX Mid Rear Drive: FWD RWD XXX 4WD Full Time 4WD Part Time									
E	ingine Family:	<u>M5.8A</u>	-						·	
	Issue Date	11-12-9	90	20	0.17.02	.00-1				
	Revised									

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1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY DUTY ENGINES

Manufacturer Fo	rd Motor Company	Engine Family MFM05.8BSA6 (M5.8A)			
Liters (CID)5.	8L (351)	<u>V-8</u>			
Emission Control (Use abbreviation	Sys. (Special Fe s per SAE J1930	eatures) <u>AIR/F</u> Jun88)	EGR/HO2S/MPI/T	WC	
Engine Code	Rated HP @ RPM	Ign. System or PCME	Fuel System	EGR Valve	Catalyst
		Part No. -12A650-	Part No. -9F593-	Part No. -9F483-	Part No. -5E212-
1-75A-R00	210 @ 3800	F2TF-EA	FOTE-CA	E8TE-BA	E8TA-LA
1-76A-R00	210 @ 3800	F2TF-PA	FOTE-CA	E8TE-BA	E8TA-LA
1-76C-R00	210 @ 3800	F2TF-FA	FOTE-CA	E8TE-BA	E8TA-LA
1-76B-R00	210 @ 3800	F2TF-NA	FOTE-CA	ESTE-BA	E8TA-KB
9-76C-R12	210 @ 3800	E9TF-AFB	FOTE-CA	E8TE-BA	ESTA-KB
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Comments: See 20.17.02.00-1 for abbreviations and 20.17.02.00-4 for evaporative emission family identification.

Engine Family: M5.8A

Issue Date	11-12-90	20.17.02.00-2	
Revised			