State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-421 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 1990 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
LFM05.8BSA7	5.8	(351)	Exhaust Gas Recirculation Heated Oxygen Sensor Three-Way Catalyst Secondary Air Injection 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	6.0		

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

Engine Family	Hydrocarbons _gm/bhp-hr	Carbon Monoxide <u>am/bhp-hr</u>	Nitrogen Oxides
LFM05.8BSA7	0.9	8.2	4.5

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 (Title 13, California Code of Regulations, Section 2036 and California Health and Safety Code Section 43205.5).

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 _______ day of July, 1989.

K. D. Drachand, Chief Mobile Source Division

E.O.# <u>A-10-421</u>
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3BSA7 (L5.8A)
Special Features
Phecial Learnies
CFI-Central Fuel
Injection or
Throttle Body
Injection
EPFI-Electronic Port
Fuel Injection
MPFI-Mechanical Port
Fuel Injection
SFI-Sequential Fuel
Injection
DID-Diesel Injectio
Direct
DIP-Diesel Injectio
Prechamber
TC-Turbocharger
SC-Supercharger
TC-Intercooler or

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEE

Manufacturer Ford Motor Company				···	Engine Family _			LFM	LFM05.8BSA7 (L5.8A)				
Evaporative Family 9HM					Engine Type		e	<u>v</u>	- 8				
					Liters	(CI	D)	5	.8L			<u></u>	
ABBREVIATIONS													
Ignition System	1		<u>Ex</u>	haust Emis	sions	Cont	rol S	System	Ī	Spec	cial Fo	eature	<u>s</u>
CA-Centrifuga ECU-Electronic EI-Electronic ESAC-Electronic Control VA-Vacuum Adv VR-Vacuum Ret	Control L Ignition Spark Adv		A E E S T T D	EM-Engine PL-Smoke	jection t Gas R onic In l Only) Modifi Puff Li le Dela kidizer kidizer ed Cata ion Cat Way Cat p Oxida p Three Sensor	Val ecir ject cati mite y , Co , Pe lyst alys alys tion -Way	on on or	contro ual ical	1	EPFI MPFI SFI DIII	Throi Inject Fuel I-Elect Fuel I-Seque Inject D-Diese Direct P-Diese Prect C-Turb C-Turb C-Supe Afte	ction ttle F ction Inject ential ct el Inj ct el Inj ct chamber ccharg rcoole	or Body Port Stion Port Stion Fuel Jection Ger Ger Ger Ger Ger
Fuel System CFI, EPFI, MPFI nV-nVenturi Car), DIP	, ноs	, os						OB	Valv D-On-B Diag L-Malf	e oard nostic unctic	on
VV-Variable Ver		50/Str		l or Cutaw	ay						Indi	cator	Light
Engine: Front 1	XXX Mid RWD <u>XXX</u> 4	_ Rear WD Ful	l Tim	ne 4WD	Part T	ime							
ssue Date	JUNOS	idao		2	0.17.02	.00	- 1						
Revised													

1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY DUTY ENGINES

Manu Curer Ford Motor Company			Engine Family <u>LFM05.8BSA7</u>					
Liter (CID) 5.8L (351 CID)			Eng. Type V-8					
Emission Con	trol Sys. (Specia	al Features) <u>EGR</u>	/AIP/TWC/HOS/EI	PFI :				
Engine Code	Maximum Rated HP at RPM	Rated Torque at RPM	Ign. System (ECU) Part No12A650-	Fuel System Part No9F593-	EGR Valve Part No9F483-	Catalyst Part No5E212-		
8-76A-R11 9-76C-R10* 9-76C-R11** 8-75A-R10 9-75A-R11** 9-76A-R00 (R/C 5.8-HI 9-76A-R01* 9-7 10**	210 @ 3800	310 @ 2800	ESTF-AUC ESTF-AFA ESTF-AEA ESTF-PA ESTF-PA ESTF-PA	E5TE-BB "" "" "" "" ""	ESTE-BA	ESTA-KB		
Comments:	See page one for	abbreviations and	evaporative em	ission family	identificati	on.		

^{**} R/C 5.8-HD-6 added new calibrations.

	Date	6-8-89	20.17.02.00-2			
R	evised					

^{*} R/C 5.8-HD-5 changed the air pump pulley ratio for all calibrations.