### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-13-58 Relating to Certification of New Heavy-Duty Motor Vehicle Engines

#### CATERPILLAR, INC.

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 Caterpillar, Inc. 1991 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Engine Family		acement ubic Inches)	Exhaust Emission Control Systems
MCT0403FZE3	6.6	(403)	Smoke Puff Limiter Charge Air Cooler Turbocharger

Engine models and codes are listed on attachments.

The following are the certification emission standards for these engine families:

Hydrocarbons gm/bhp-hr	Carbon Monoxide <u>gm/bhp-hr</u>	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
1.3	15.5	5.0	0.25

The following are the certification emission values for these engine families:

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-h	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
MCT0403FZE3	0.2	1.3	4.4	0.21

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 47

day of February, 1991

R. B. Summerfield

Assistant Division Chief Mobile Source Division

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## 1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

### HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family MCT0403FZE3					
Liter (CID) <u>6.6 (</u>	403)	Engine T	ype <u>16</u>		
Emission Control Sys	and (Special Fe	atures) SPL	(TC,CAC )		<u></u>
(Use abbreviations p	per SAE J1930 JUN	88)			·
Engine Model (Eng. Code)	Fuel Pump* MFR. P/N	·Injector MFR. P/N	Rated HP @ RPM	Fuel Rate @ Bated HP mm /stroke	Part. Trap/ Catalyst MFR. P/N
3116 (A)	7E6193	7E6396	290 a 2600	130	
(B)	7E6193	7E6396	225 a 2600	98	
¥					
·					
	1				}

\*Basic Fuel Pump 4P2995

(Reference Page No. 16.04-0403FZE-1).

Revisions:

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### 1991 MODEL-YEAR CERTIFICATION REVIEW SHEET HEAVY-DUTY ENGINE

Manufacturer <u>Caterpillar Inc.</u>	Engine	Family M	CTU4U3FZE:	<u> </u>		
Fuel Type <u>Diesel</u>	Engine Code Types	: CA	49s	50s _	<u>x</u>	0.0
Liter (CID) <u>6.6 (403)</u>	Valves/Cyl4_	Engine T	ype <u>16</u>			
Exhaust Control System & Special F	eatures <u>SPL(</u>	TC.CAC )				
(Use abbreviations per SAE J1930	(88 NUL					
***************************************						
	Section/Page					Section/Page
1 Authorized Representative	01.01.01.00	10 Projec	ted Sales		16.00.0	0.00 Appendix A
2 Fuel, Test Equipment	04.00.00.00	11 Gen. S	itd., Incr	ease in	Em.,	16.01.00.00
Procedures & Route		Safety	, Mtg. Al	l Reqts	. St.	•
3 Emiss. Warranty Statement (St.)	06.04.00.00 &	12 Prod.	Eng. Same	as Tes	t Eng.S	t. <u>16.01.00.00</u>
	16.05.01.00	13 Emiss.	Label Du	rabilit	y St.	07.00.00.00
4 Maint: Cert/Req'd Recm'd	06.00.00.00	14 EPA Ce	rtificate			
5 Emiss. Label/Vac. Hose Diag.	07.00.00.00					
6 Engine Parameters	10.00.00.00					
9 Exhaust Control System	16.05.01.00					
· · · · · · · · · · · · · · · · · · ·						
15 Test Engine Information	Dur. MY	Emi	ss. NY			
C/O MY OR C/A	12.00,00.00	12,00.				
Engine Logs	12.02.00.00	12.02.				
Zero Hour Books	12.01.00.00	12.01.				
Maint. Logs & Engr. Eval.	12.03.00.00		00.00			
************************	····		<del></del>			
			Projected	f Fmiss	ions (1	)
Engine Displ.	Test		,			•
Code CID Engine I.D.		MAIUC	THC	co	NOv	DADT
CID ENGINE 1.D.	Loc.	MNHC	100	<u>co</u>	NOX	PART .
A 403 7SF02132	*		0.2	1.3	4.4	0.21
•						
			•			
· ·						
(1) The emission data engines above	compy with stds.	of:	1.3	<u>15.5</u>	5.0	0.25
		_	_	_		
and includes deter	rioration factors	of: <u></u>			0.28	0.014
* Caterpillar Inc., Peoria, Illinoi	is					
	-					
Useful Life: <u>185.000</u> Miles						
Remarks Hedium Heavy Duty Engine. Engines are for The militarie and						
Remarks Hedium Heavy Duty Engine. Engines are for the military and sales figures are unknown for California.						
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The constraints						