State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-11-6

Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

CASE CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43000.5, 43013 and 43018 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-45-9;

IT IS ORDERED AND RESOLVED: That the following Case Corporation 1997 model-year engine, with rated power between 175 and 750 horsepower, and exhaust emission control systems are certified as described below for use in heavy-duty off-road equipment:

Typical Equipment Usage:

Agriculture Tractor, Mining/Construction Trucks, Snow Groomer, Logging Equipment

Fuel Type: Diesel

Engine Family	Liters (Cubic Inches)	Exhaust Emission Control Systems and Special Features
VX9505R6DTRC (B413)	8.3 (505)	Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matters (PM) certification exhaust emission standards, in grams per brake horsepower-hour (g/bhp-hr), and the opacity of smoke emission standards, in percent (%), during acceleration (Accel), lugging (Lug), and peak (Peak) modes, for this engine family are (Title 13, California Code of Regulations, Section 2423):

<u>Exhaus</u>	t Emissio	ions (g/bhp-hr) Smoke Opa			Opacity	pacity (%)		
THC	<u>co</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	Lug	<u>Peak</u>		
1.0	8.5	6.9	0.4	20	15	50		

The THC, CO, NOx and PM exhaust emission certification values, in g/bhp-hr, and the opacity of smoke emission certification values, in percent (%), for this engine family are:

	<u>Exhaust</u>	<u>Emissic</u>	on (g/bh	o-h <u>r)</u>	Smoke C	pacity	(%)_
Engine Family	THC	<u>co</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	Lug	<u>Peak</u>
VX9505R6DTRC (B413)	0.3	0.5	5.4	0.2	7	2	16

BE IT FURTHER RESOLVED: That the listed engine models comply with the "Exhaust Emission Standards and Test Procedures -- Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "Emission Control Labels--1996 and Later Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2425 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this $7^{\frac{1}{2}}$ day of January 1997.

Raphal Suspaint fook. B. Summerfield, Chief

Mobile Source Operations Division

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1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY OFF-ROAD DIESEL ENGINES CASE CORPORATION

Maximum Rate Ignition: C	d Power:	240	Liters/Cubic Inche Cert : Stroke HP (179 sion with Glow Plug	s per Combusti	on Cycle	^A⊠
Diesel Cert P Primary Servi	CNG CFR Cuel: 40 CFR ce Equipment:	Flex-Fu	el Dual F Other (specification of the Company of t	uel [] Dies	Sp el 🖾 M100	□ N82 □
			TC,CAC			
Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP	(use abbrevia	tions per SAE J	1930 JUN93)	PTOX /
2062		mm' / stroke (lbs/hr)	& Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	Catalytic Converter Part No.
<u>062</u> TA-830 007	240 @ 2200 240 @ 2200 240 @ 2200 230 @ 2200	123(91.0) 123(91.0) 123(91.0) 118(87.3)	IN 3930525 FP 3926885 FP 3930453 FP 3931283 FP 3927129	N/A N/A N/A N/A	N/A N/A N/A	N/A N/A N/A N/A
0C8-A7	215 @ 2200 215 @ 2200	109(80.6)	IN 3928228 FP 3926882 FP 3930454	n/a n/a	N/A N/A	N/A
				,		
⊇ Issued;						