## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER U-R-11-5

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
VX9505R6DTRB (A413)	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):

Exhaust Emissions (g/bhp-hr)				<u>Smoke</u>	_ Smoke Opacity ( % )			
THC	<u>CO</u>	<u>NOx</u>	<u>PM</u>	Accel	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>Emission</u>	(g/bhp-	<u>hr)</u>	_ Smoke C	pacity (	( % )
Engine Family	THC	<u>co</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
VX9505R6DTRB (A413)	0.4	0.7	5.8	0.2	10	3	25

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 \_\_\_\_\_\_ day of January 1997.

A. 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

Manufacturer	CASE COR	PORATION	Engine		,	
Displacement All Codes in Valves/Ports Maximum Rated Ignition: Co Puel Type(s): Diesel Cert F Primary Servi- Tractors	Eng Fam: CA per Cylinder i Power: mpression   CNG  CNG  uel: 40 CFR ce Equipment:	### 8.3	Liters/Cubic Inches  Cert To Strokes  IP ( 194  Sion with Glow Plug  Liters/Cubic Inches  Other (specify Other (specify  Kining Trucks, Snow	Per Combustion  KW) 6  Diese	efig: : ARB	I-6 AM 4
		CAC):	TC,CAC			
Frate		Fuel Rate	(use abbreviat	ions per SAE J	1930 JUN93)	
Engine Model (Eng Code)	Rated HP @ RPM	@ Rated HP mm' / stroke (lbs/hr)	Fuel Pump # Injector Part No.	ECM/PCM Part No.	IGR Valve Part No.	PTOX / Catalytic Converter
1845 TA-830 2054 6TA-830	260 @ 2200 260 @ 2200 260 @ 2200 260 @ 2200	133(98.8) 133(98.8) 133(98.8) 133(98.8) 133.7(97.6)	IN 3926787 FP 3926776 FP 3926776 FP 3926887 FP 3926887 IN 3926787 FP 3926886	N/A N/A N/A	N/A N/A N/A	Part Mo.  N/A  N/A
Date Issued: Revisions;				,		

SUBMITTED OCT 1 1 1596