

State of California  
AIR RESOURCES BOARD

## EXECUTIVE ORDER U-R-7-17

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

## DETROIT DIESEL 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 Detroit Diesel 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: Generator

Fuel Type: Ethanol (E100)

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
VDD9.0TJ30AE (6V-92TAE)	9.0 (552)	Turbocharger Charge Air Cooler Engine Control Module Oxidation Catalytic Converter

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 matter (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>Exhaust Emissions (g/bhp-hr)</u>				<u>Smoke Opacity (%)</u>		
<u>THC</u>	<u>CO</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<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>Engine Family</u>	<u>Exhaust Emission (g/bhp-h)</u>				<u>Smoke Opacity (%)</u>		
	<u>THC</u>	<u>CO</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
3.0TJ30AE (6V-92TAE)	0.5	0.01	3.0	0.03	2	0	6

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 9<sup>th</sup> day of January 1997.



R. B. Summerfield, Chief  
Mobile Source Operations Division

17-VDD9.0TJ30AE-21

E.O. No. U-R-7-17

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1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: Detroit Diesel Corporation

Engine Family: VDD9.0TJ30AE

Displacement:      / 9.0 Liters

     / 552 Cubic Inches

All Engine Codes in Family: CA X 49S      50S     ; Strokes/Cycle: 2; Valves/Cylinder: 4

Ignition: Compression X; Compression with Glow Plug     ; Spark     

Fuel Type(s): Dedicated X; Flex Fuel     ; Dual-Fuel     ; Diesel     ; M100     ; M85     

CNG/LNG     ; LPG     ; Other (Specify) Ethanol (E100)

Diesel Cert Fuel: 13CCR 2282     ; 40 CFR 86.1313-90     ; 40 CFR 86.1313-94     

Maximum Rated Power: 310 HP @ 1800 RPM

Engine Configuration: V-6

Exhaust ECS: ECM, OC, CAC, TC

Equip. Type: GEN SET

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm <sup>3</sup> /Stroke (Lbs/Hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX/ Catalytic Converter Part No.
6V-92TA Ethanol (GS1E)	310 @ 1800	172.5 (194.0)	5236588	7570049 7570050		