## State of California AIR RESOURCES BOARD

## **EXECUTIVE ORDER A-243-21**

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

## VOLVO TRUCK CORPORATION

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-45-9;

IT IS ORDERED AND RESOLVED: That the following Volvo Truck Corporation 1996 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
TVT12.EJDBRA (VE-D12)	12.1	(740)	Engine Control Module Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

Total	Carbon	Nitrogen	<u>Particulates</u>	
Hydrocarbons	<u>Monoxide</u>	<u>Oxides</u>		
1.3	15.5	5.0	0.10	

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

Engine	Total	Carbon	Nitrogen	<u>Particulates</u>
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	
TVT12.EJDBRA (VE-D12)	0.1	2.8	5.0	0.08

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 2035 et seq.).

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 February 1996.

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R. B. Summerfield

Assistant Division Chief Mobile Source Division

## 1996 MY AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET E.O# HEAVY-DUTY DIESEL - STANDARD ENGINES A-243 - 21

Manufacturer: Volvo Truck Corporation Engine Family: TVT12.EJDBRA (VE D12)						
Displacement: 12.1 Liters 740 Cubic Inches						
All Eng Codes in Eng Family:CA49S50S _X_Strokes/Cycle: 4_ Valves/Cylinder: _4_						
Ignition: Compression X Compression with Glow Plug Spark						
Fuel Type(s): Dedicated X Flex-Fuel Dual-Fuel Bi-Fuel Diesel X CNG						
••				Other (specif		
Diesel Cert F	uel: 13 CCR	. 2282 4	40 CFR 86.1313	-90 40 C	FR 86.1313	-94 <u>X</u>
				Engine		
				I, TC, CAC,		
	_	E J1930 MAY9				
	-					
Engine Model	Rated HP	Fuel Rate	Fuel Pump	ECM/PCM	EGR	PTOX /
(Eng. Code)	@ RPM	@ Rated HP	& Injector	Part No.	Valve	Catalytic
		mm <sup>3</sup> / stroke	Part No.		Part No.	Converter Part No.
		(lbs/hr)			,	ratino.
VE D12-370	370 / 1700	212.0	Unit Injectors	EPG-1677605 VEB-1677835		
(I)		(118.9)	1 547 909			
VE D12-415	415 / 1700	239.0	1 547 909	EPG-1677604 VEB-1677834		
(II)		(134.0)	1.547.000			
VE D12-425	425 / 1700	245.0 (137.3)	1 547 909	EPG-8148438 VEB-8148439		
(III)	050 11500		1 547 909	EPG-8148386		
VE D12-370VT (IV)	370 / 1700	212.0 (118.9)	1 347 909	VEB-8148389		
	415 / 1700	239.0	1 547 909	EPG-8148385		
VE D12-415VT (V)	415 / 1700	(134.0)	1 347 909	VEB-8148388		
VE D12-310	310 / 1700	179.0	1 547 287	EPG-1677492		
(VI)	31071700	(100.3)	1517207	VEB-1677837		
VE D12-335	335 / 1700	194.0	1 547 287	EPG-1677457		
(VII)	3337 1700	(108.7)		VEB-1677836		
VE D12-335VT	335 / 1700	194.0	1 547 287	EPG-1677387		
(VIII)		(108.7)		VEB-1677390		
VE D12-425VT	425 / 1700	245.0	1 547 909	EPG-8148475		
(IX)		(137.3)		VEB-8148476		
EPG = Exhaust Pressure Governor VEB= VOLVO Engine Brake						