## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER U-R-3-24 Relating to Certification of New Off-Road Compression-Ignition Engines

## VOLVO CONSTRUCTION EQUIPMENT COMPONENTS AB

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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 compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment:

Model Year: 2001

Typical Equipment Usage: Loader

Fuel Type: Diesel

Engino Family	Engine Displacement		Emission Control Systems
Engine Family 1VSXL06.7CE1	<u>(liters)</u> 6.7	<u>(hours)</u> 8000	and Special Features Direct Diesel Injection
			Turbocharger
			Charge Air Cooler
			Smoke Puff Limiter

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 exhaust emission certification standards and certification values for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) (units are expressed in grams per kilowatt-hour (g/kw-hr)), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

Engine Power	Emission Standard		Exhaust Emissions (g/kw-hr)				Smoke Opacity (%)			
Rating (kw)	<u>Category</u>		<u>HC</u>	<u>NOx</u>	NMHC+NOx	<u>co</u>	PM	Accel	Lug	Peak
130 <u>&lt;</u> KW<225	Tier 1	Standard	1.3	9.2	N/A	11.4	0.54	20	15	50
		Certification	0.3	8.0		0.5	0.20	6	2	11

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels— 1996 and Later Off-Road Compression-Ignition 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, Sections 2425 and 2426).

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

Executed at El Monte, California this

day of January 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

## Engin Model Summ y Form

inufacturer:

**Volvo Construction Equipment Components** 

Attachment

gine category:

AB Nonroad CI

'AEngine Family: 1VSXL06.7CE1

r Family Name:

**TD73** 

ocess Code:

**New Submission** 

10# U-R-3-24

		3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP とい	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930
. 1	TD73KCE	255 @ 2400	122	94	774 @ 1200	164	64 TC,CAC EM, SPL DDI
H	TD73KDE	205 @ 2100	153 115	79	682 @ 1100	150	54 TC,CAC, EM, SPL, DDE
HI	TD73KHE	208 @ 1700	155 133	74	768 @ 1200	149)	58 TC, CAC, EM, SPL, OD E
IV	TD73KFE	232 @ 2400	173 110	86	768 @ 1200	151	59 TC, CAC, EM, SPL DOI

74 Cert NO: VSX-NR6-01-04