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(Page 1 of 2)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-3-23 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: Other OEM equipment

Fuel Type: Diesel

Engine Family 1VSXL05.5CE1	Engine Displacement (<u>liters)</u> 5.5	Useful Life (hours) 8000	Emission Control Systems and Special Features Direct Diesel Injection Turbocharger Charge Air Cooler Smoke Puff Limitor
1VSXL05.5CE1	5.5	8000	Direct Diesel Injection Turbocharger

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							
<u>Rating (kw)</u> 75 <u><</u> KW<130	<u>Category</u> Tier 1	Standard	<u>HC</u> N/A	<u>NOx</u> 9.2	NMHC+NOx N/A	<u>CO</u> N/A	<u>PM</u> N/A	Accel 20	<u>Lug</u> 15	ity (%) Peak 50
		Certification		8.0				8	5	13

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.

K. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model S mary Form

Manufacturer:

Volvo Construction Equipment Components

Engine category:

Nonroad CI

EPA Engine Family: 1VSXL05.5CE1

Mfr Family Name: TD63

Process Code:

New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	mm/stro	Fuel Rate: oke @ peak HP diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ (SEA Gro		7.Fuel Rate: mm/stroke@peak torque	8.Fuel Ra (lbs/hr)@peal	• • • • • • • • • • • • • • • • • • • •	Emission Co	
<u> </u>	TD63KFE	161 @ 1800 ⁻	12-0	101	59	527 @ 1	1200	112	44	TOCAL	EM, SPI	
	TD63KBE	157 @ 2200	117	85	61	513 @ 1	Samuel and a site of the state	110	39	10.CAC	EM, SPI	
	TD63KDE	125 @ 2200	93	68	49	443 @ 1	100	. 101	36	and the second second		
IV	TD63KGE	126 @ 2200	94	68	49	439 @ 1		<u>1</u> 95	36	TC.CAC	EM, SPL	
V	TD63KHE	152 @ 2000	113	84	54	630 @ 1	nazim waji internazioni parti	95	CHECKS IN STORY FOR A	TG, CAC	Severamental state of the con-	
VI	TD63KIE	173 @ 2100	129	91	62	685 @ 1	الكلائيش بهر (مانا سيماناه	104				
VII	TD63KBE	157 @ 2200	117	84	60	513 @ 1		109		TC, CAC		

EPA cert NO: VOX-NR5-01-03

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