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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-14-43 Relating to Certification of New Off-Road Compression-Ignition Engines

AB VOLVO PENTA

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 Industrial Equipment

Fuel Type: Diesel

Engine Family 1VPXL05.5AAA (TD630VE)	Engine Displacement (liters) 5.5	Useful Life (hours) 8000	Emission Control Systems and Special Features Direct Diesel Injection Turbocharger
(TD630VE)			Turbocharger
			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):

	Emission	Exhaust Emissions (g/kw-hr)								
Engine Power Rating (kw) 37 <u><</u> KW<130	Standard <u>Category</u> Tier 1						Smoke Opacity (%)			
		Standard	HC N/A	<u>NOx</u>	NMHC+NOx	<u>CO</u>	<u>PM</u>	Accel	Lug	<u>Peak</u>
				9.2	N/A	N/A	N/A	20	15	50
		Certification		8.5				6	4	12

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 February 2001

R. B. Suprimerfield, Chief

Mobile Source Operations Division

Engine Model { mmary Form

BD# U-R-14-1-

Manufacturer:

AB VOLVO PENTA

Engine category:

Nonroad Over 50 Hp

EPA Engine Family.

1VPXL05.5AAA

Mfr Family Name:

TD630VE

Process Code:

New Submission

Attachment

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	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: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930	
. 1	TD630VE	161@2400	82@161	65.8	451@1400	91@451	42.6 DO	T EM,SPL,CA TC ♣	
2	TD630VE	161@2200	85@161	62.6	451@1400	91@451	42.6 00	T	
3	TD630VE	138@2400	71@138	57	379@1400	76@379	35.6 00	for the form the second of the second	
4	TD630VE	138@2200	73@138	53.7	379@1400	76@379	35.6 pp		
5	TD640VE	159@2400	67@159	54	472@1400	90@472	42 p0		
6	TD640VE	173@2400	84@173	67@173	509@1400	101@509	47 pp	7	

EPACEN NO: VPX-NRCI-01-06

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