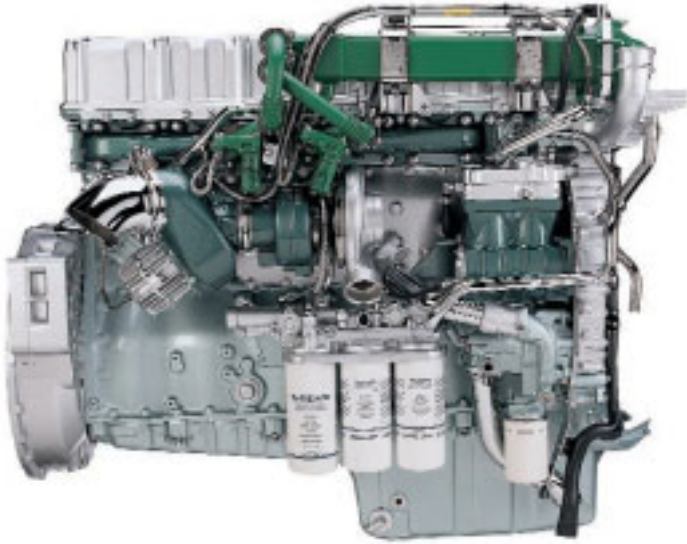


VOLVO POWER VE D12 435



SPECIFICATIONS

Model	Volvo VE D12 435
Base Engine Configuration	4 cycle / inline 6
Aspiration / intercooler	Turbocharged / air to air
Cam / valve configuration	SOHC / 4 per cylinder
Cylinder head	One Piece
Injection system	Electronic Unit Injectors (EUI)
Electronic management system	VECTRO III
Horsepower	Derating (365 or 395) software only
Displacement, cu in (L)	740 (12.13)
Compression ratio	17.3:1
Bore & stroke, in (mm)	5.16 x 5.90 (131 X 150)
Dry weight, lb (kg)	2477 (1126)
Engine Ratings, hp	435
Peak power hp / Peak torque lb ft	435 @ 1800 / 1550 @ 1200
Governed rpm (high idle)	1900 (2100)
Recommended cruise range, rpm	1400 - 1600
Start engagement torque lb ft	627 @ 800
Oil Service Intervals, etc.⁽¹⁾	
Total oil change capacity, in qts (L)	34 (33)
Number of oil filters	2 full flow, 1 by-pass
Oil change:	
Severe duty, VDS-2 or EO-N Prem Plus oil	12,000 miles / 19,000 km / 300 h
Standard duty, VDS-2 or EO-N Prem Plus oil	15,000 miles / 24,000 km / 400 h
Extended oil drain, VDS-2 or EO-N Prem Plus oil only	25,000 miles / 40,000 km / 600 h
Engine Equipment	
Compressor (CFM)	18.7
Exhaust pressure governor (EPG)	Standard
EPG, Exhaust brake rating	225 hp @ 2300
Preheater	Available
Engine compression brake	Available
Compression brake rating (VEB)	350 hp @ 2300
Engine brake weight, lb (kg)	25 (12)
Side engine PTO	Available, 60 hp / 370 lb ft
Base Warranty⁽²⁾	
Major components	24 months / 250,000 miles / 6,250 hours
Emission components	60 months / 500,000 miles / 12,500 hours
	60 months / 250,000 miles / 6,250 hours
	100% parts & labor
Extended Warranty⁽²⁾	
	60 months / 500,000 miles / 12,500 hours
	Various parts & labor plans available

(1) For complete information see TSI 175.001.

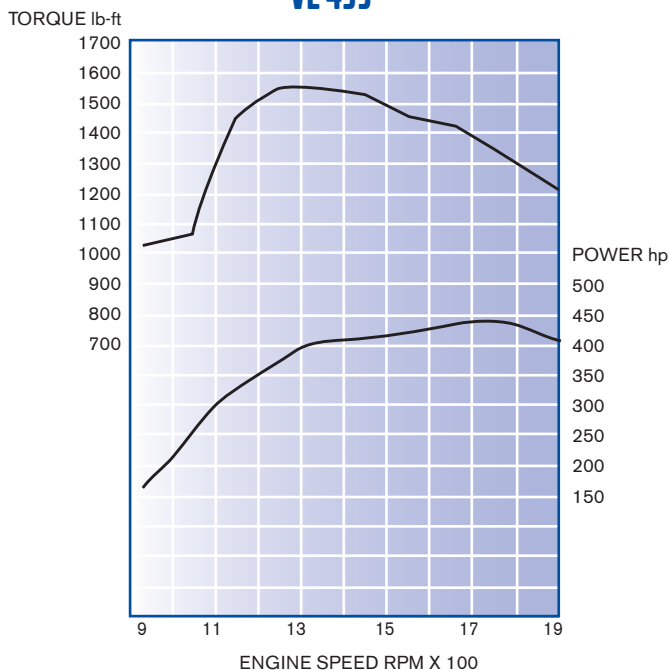
(2) Conditions and limitations apply. See dealer for details.

VOLVO

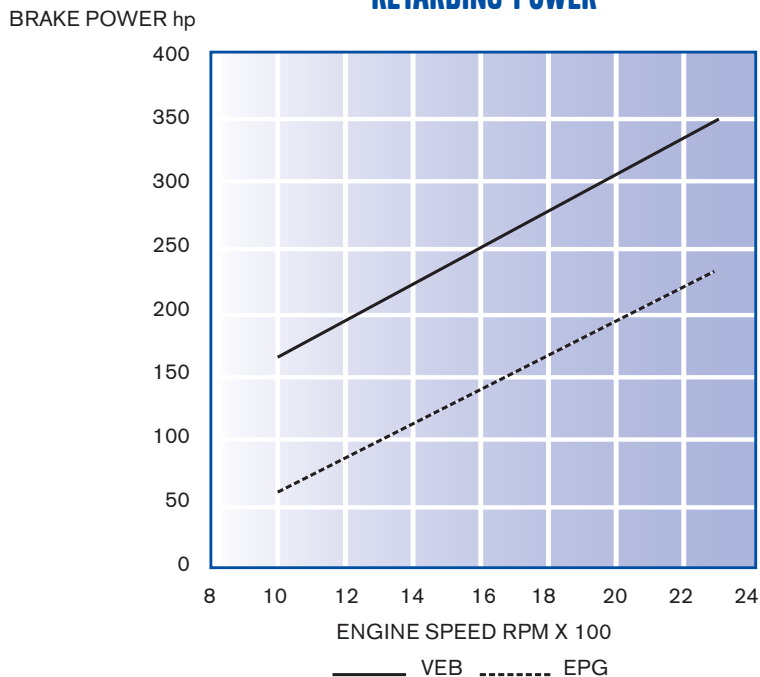
New Roads

VOLVO POWER VE D12 435

VE 435



RETARDING POWER



VOLVO DRIVETRAIN RECOMMENDATIONS



GVW / GCW in lb x 1000	75 - 105	95 - 140
Truck configuration	6 X 4	
Engine Type	VE D12 435	
Recommended cruise range, rpm	1400 -1550	1450 - 1600
Governed rpm @	1900	
Manual Transmissions^(1,2)	Direct / 0.73 overdrive	0.73 overdrive
Tire sizes (revs / mile)	478 - 516	
Rear axle ratios	2.64-2.93 / 3.55-4.30	3.55-4.30
Recommended cruise speed (mph)	65 - 70	55 - 70
Top speed range (mph)	68- 81	60 - 81
Minimum startability	16%	

(1) A gradeability below 1% at "cruise speed" will result in poor driveability.

(2) When operating in hilly terrain and GCW exceeds 90,000 lbs, a "13-, 15- or 18-speed" transmission is recommended.

VOLVO

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