

SPECIFICATIONS

Model	Volvo VE D12 395 for VHD only
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) software only
	Uprating (435) 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	395
Peak power hp / Peak torque lb ft	395 @ 1800 / 1450 @1200
Governed rpm (high idle)	2100 (2300)
Recommended cruise range, rpm	1450 - 1650
Start engagement torque lb ft	627 @ 800
Oil Service Intervals, etc.⁽¹⁾	
Total oil change capacity, in qts (L)	39 (37)
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
VEB, Compression brake rating	350 hp @ 2300
Engine brake weight, lb (kg)	25 (12)
Side engine PTO	Available, 60 hp / 370 lb ft
Front engine PTO	Available, 180 hp / 500 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



VOLVO

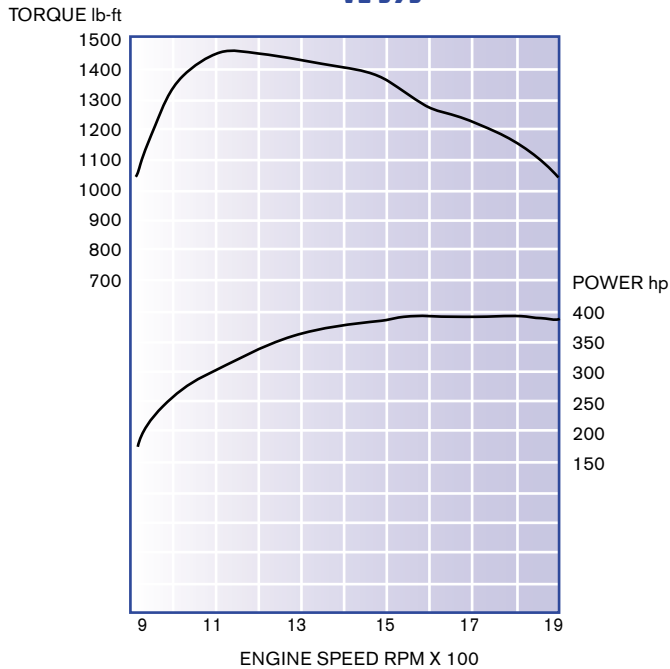
New Roads

(1) For complete information see TSI 175.001.

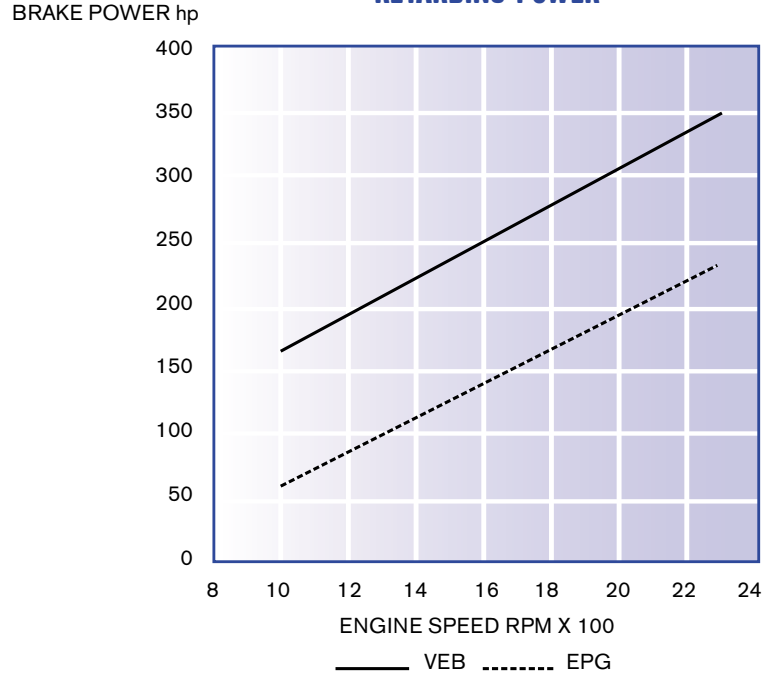
(2) Conditions and limitations apply. See dealer for details.

VOLVO POWER VE D12 395

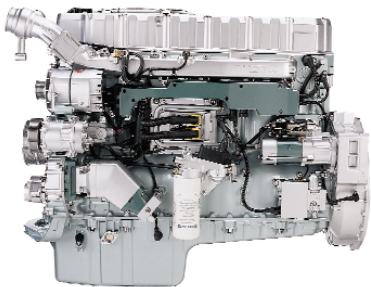
VE 395



RETARDING POWER



VOLVO DRIVETRAIN RECOMMENDATIONS



GVW / GCW in lb x 1000	65 - 80	75 - 105
Truck configuration	6 X 4	
Engine type	VE 395 for VHD only	
Recommended cruise range, rpm	1550 - 1650	
Governed rpm @	2100	
Manual transmissions^(1,2)	0.73 overdrive	0.73 overdrive
Tire sizes (revs / mile)	501 - 516	501 - 516
Rear axle ratios	3.90 - 4.50	3.70 - 4.30
Recommended cruise speed (mph)	60 - 65	63 - 68
Top speed range (mph)	63 - 68	66 - 78
Minimum startability	20%	
Manual transmissions, 5-speed^(1,2)	HD 4060 OR HD 4560	
Tire sizes (revs / mile)	501 - 516	
Rear axle ratios	3.90 - 5.20	
Recommended cruise speed (mph)	60 - 65	
Top speed range (mph)	63 - 68	
Minimum startability	20%	

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

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

VOLVO

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