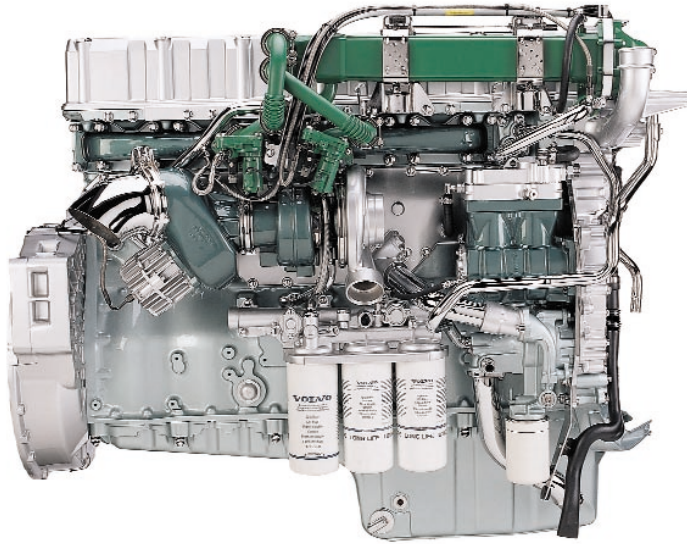


# VOLVO POWER VE D12 435



## SPECIFICATIONS

<b>Model</b>	Volvo VE D12 435 for VHD only
<b>Base Engine Configuration</b>	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, 395) software 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)
<b>Engine Ratings, hp</b>	435 435 @ 1800 / 1550 @ 1200 2100 (2300) Recommended cruise range, rpm 1400 - 1650 Start engagement torque lb ft 627 @ 800
<b>Oil Service Intervals, etc.<sup>(1)</sup></b>	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 25,000 miles / 40,000 km / 600 h EO-N Prem Plus oil only
<b>Engine Equipment</b>	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
<b>Base Warranty<sup>(2)</sup></b>	Major components 24 months / 250,000 miles / 6,250 hours Emission components 60 months / 500,000 miles / 12,500 hours 100% parts & labor 60 months / 250,000 miles / 6,250 hours
<b>Extended Warranty<sup>(2)</sup></b>	Various parts & labor plans available 60 months / 500,000 miles / 12,500 hours



# VOLVO

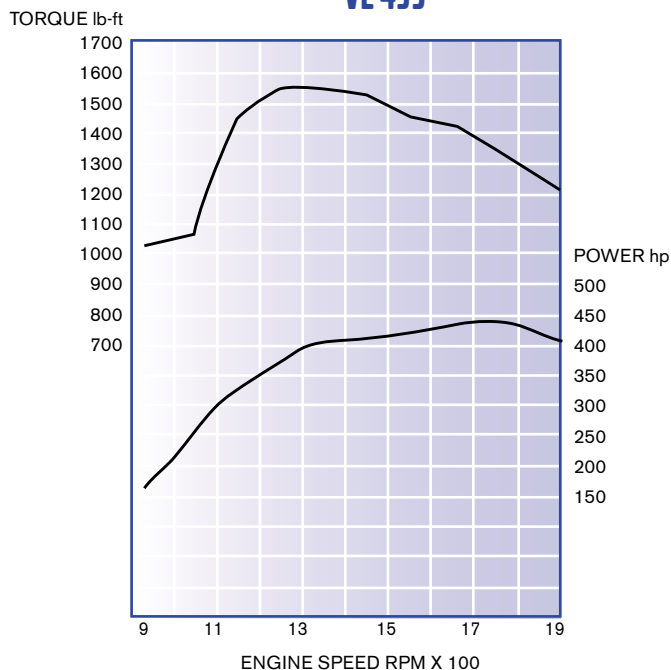
New Roads

(1) For complete information see TSI 175.001.

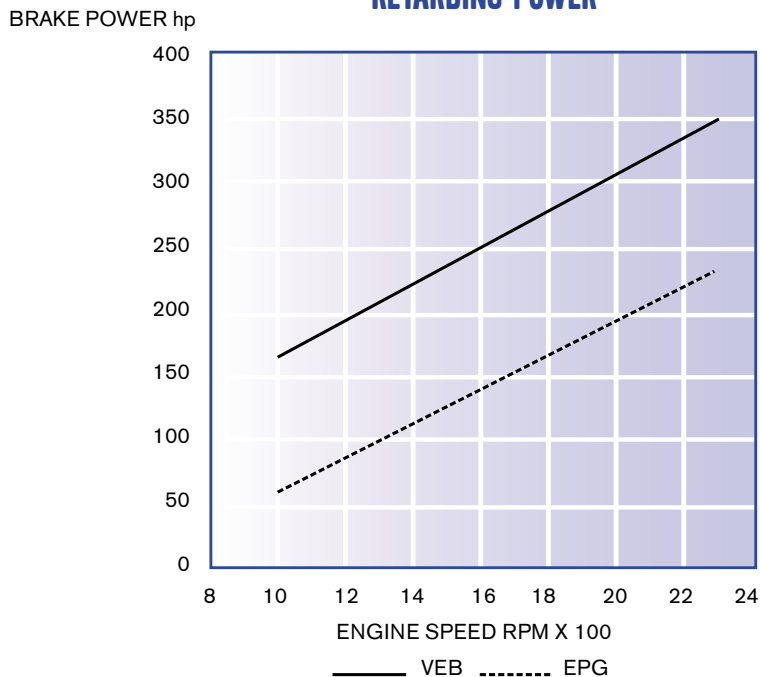
(2) Conditions and limitations apply. See dealer for details.

# VOLVO POWER VE D12 435

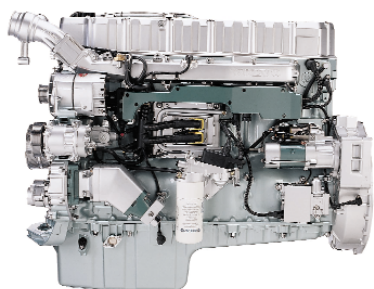
## VE 435



## RETARDING POWER



## VOLVO DRIVETRAIN RECOMMENDATIONS



<b>GVW / GCW in lb x 1000</b>	75 - 105	95 - 140
<b>Truck configuration</b>	6 X 4	
<b>Engine type</b>	VE 435 for VHD only	
<b>Recommended cruise range, rpm</b>	1500 - 1600	1550 - 1650
<b>Governed rpm @</b>	2100	
<b>Manual transmissions<sup>(1,2)</sup></b>	0.73 overdrive	0.73 overdrive
<b>Tire sizes (revs / mile)</b>	478 - 516	
<b>Rear axle ratios</b>	3.70 - 4.30	3.70 - 4.30
<b>Recommended cruise speed (mph)</b>	63 - 68	53 - 68
<b>Top speed range (mph)</b>	66 - 78	58 - 78
<b>Minimum startability</b>	20%	

(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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