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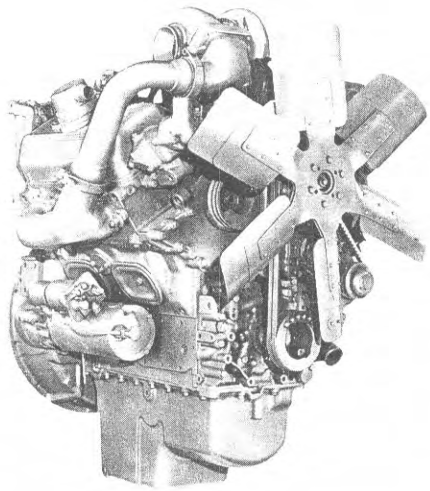
DETROIT DIESEL Series 53

Industrial Model 6V-53N/T 160-300 HP



General Specifications

Basic Engine	6V-53N	6V-53T
Model	5063-5000	5063-5301
Number of Cylinders	6	6
Bore and Stroke	3.875 in × 4.5 in (98 mm × 114 mm)	3.875 in × 4.5 in (98 mm × 114 mm)
Displacement	318 cu in (5.2 liters)	318 cu in (5.2 liters)
Engine Type	2 cycle-Vee	2 cycle-Vee
Compression Ratio	21 to 1	21 to 1
Engine Heat Rej.	5500 BTU/min (97 kW) @ 160 BHP	8700 BTU/min (153 kW) @ 300 BHP
Engine Coolant Capacity	14 qt (13.2 liters)	14 qt (13.2 liters)
Exhaust Temperature	825°F (440°C) @ 160 BHP	740°F (393°C) @ 300 BHP
Total Engine Oil Capacity	16 qt (15 liters)	16 qt (15 liters)
Dimensions (approx.)		
Length	39 in (991 mm)	39 in (991 mm)
Width	40 in (1016 mm)	36.5 in (927 mm)
Height	37 in (940 mm)	41.3 in (1049 mm)
Weight (dry)	1485 lbs (674 kg)	1695 lbs (769 kg)

Rated Power Output

Maximum (5063-5301)	
Gross Power	300 BHP (224 kW) @ 2800 RPM
Peak Torque	666 lb ft (903 N·m) @ 1600 RPM
Minimum (5063-5000)	
Gross Power	160 BHP (119 kW) @ 2400 RPM
Peak Torque	394 lb ft (534 N·m) @ 1400 RPM
Continuous	
Gross Power	220 BHP (164 kW) @ 2400 RPM
Peak Torque	534 lb ft (724 N·m) @ 1600 RPM

Continuous rating is turbocharged rating.
Rating conditions of SAE: 77°F (25°C) and 29.31 in Hg (99kPa) Barometer (Dry)

Equipment Specifications

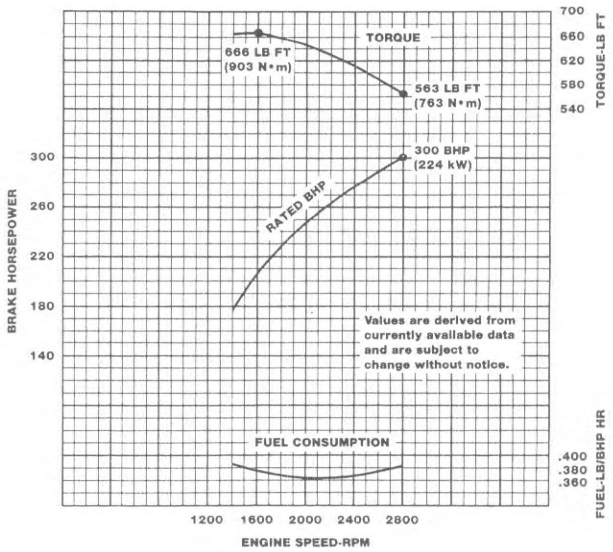
Alternator—12 volt, 65 amp, includes self-contained regulator
Blower—With bypass valve (T) only
Engine Lifter Bracket
Fan—22 in, 5 blades, suction, pulley and support
Flywheel—SAE #2
Flywheel Housing—SAE #2
Governor—Limiting speed
Lube Oil Cooler—Plate type cooler, stainless steel
Oil and Fuel Filters
Starting Motor—12 volt
Turbocharger—High efficiency TV6302 (1.05 A/R)
Water Pump

For a complete listing of standard and optional equipment, consult your distributor or authorized Detroit Diesel Corporation representative.

Photograph represents a typical industrial engine

Performance Curve

300 BHP



Rating Explanation

RATED BHP is the power rating for variable speed and load applications where full power is required intermittently.

FUEL CONSUMPTION CURVE shows fuel used in pounds per brake horsepower hour.

POWER OUTPUT guaranteed within 5% at rated ambient conditions.

THIS RATING does not include power requirements for accessory and standard equipment.

DETROIT DIESEL
CORPORATION

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3SA362 8803 As technical advancements continue, specifications will change. Litho in USA