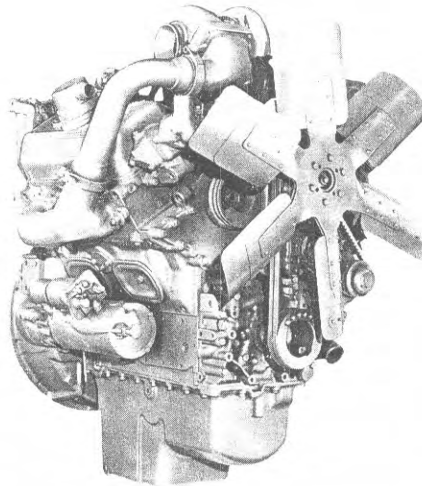


# DETROIT DIESEL Series 53

## Industrial Model

### 6V-53N/T 160-300 HP



#### General Specifications

|                           | 6V-53N                                | 6V-53T                                |
|---------------------------|---------------------------------------|---------------------------------------|
| Basic Engine Model        | 5063-5000                             | 5063-5301                             |
| Number of Cylinders       | 6                                     | 6                                     |
| Bore and Stroke           | 3.875 in × 4.5 in<br>(98 mm × 114 mm) | 3.875 in × 4.5 in<br>(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<br>(97 kW)<br>@ 160 BHP  | 8700 BTU/min<br>(153 kW)<br>@ 300 BHP |
| Engine Coolant Capacity   | 14 qt (13.2 liters)                   | 14 qt (13.2 liters)                   |
| Exhaust Temperature       | 825°F (440°C)<br>@ 160 BHP            | 740°F (393°C)<br>@ 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 |

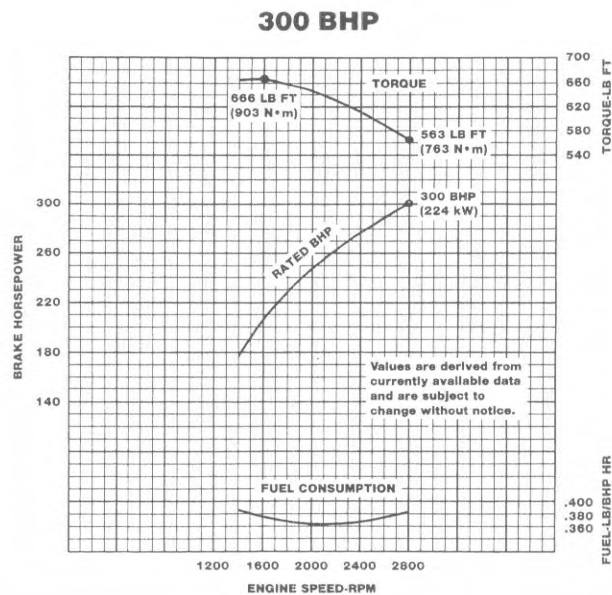
Continuous rating is turbocharged rating.  
Rating conditions of SAE: 77°F (25°C) and 29.31 in Hg (99kPa) Barometer (Dry)

#### 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.

## Performance Curve



### 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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