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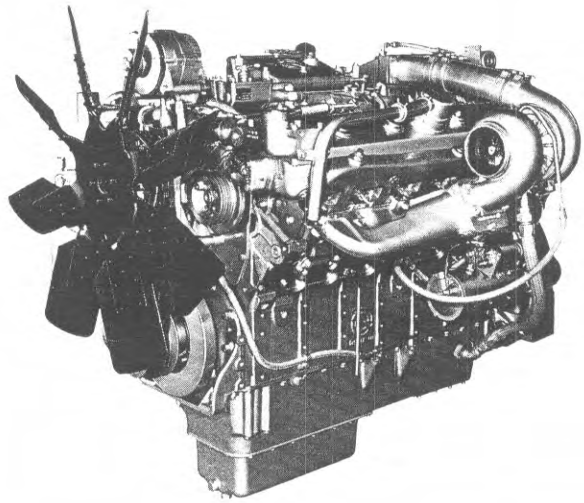
DETROIT DIESEL Series 71

Industrial Model 12V-71N/TA 370-633 HP



General Specifications

Basic Engine	12V-71N	12V-71TA
Model	7123-7000	7123-7400
Number of Cylinders	12	12
Bore and Stroke	4.25 in × 5 in (108 mm × 127 mm)	4.25 in × 5 in (108 mm × 127 mm)
Displacement	852 cu in (13.97 liters)	852 cu in (13.97 liters)
Engine Type	2 cycle-Vee	2 cycle-Vee
Compression Ratio	18.7 to 1	17 to 1
Engine Heat Rej.	10,880 BTU/min (191.3 kW) @ 370 BHP	19,580 BTU/min (344.3 kW) @ 633 BHP
Engine Coolant Capacity	55 qt (52 liters)	55 qt (52 liters)
Exhaust Temperature	735°F (391°C) @ 370 BHP	680°F (343°C) @ 633 BHP
Total Engine Oil Capacity	37 qt (35 liters)	36 qt (34 liters)
Dimensions (approx.)		
Length	60 in (1524 mm)	62.4 in (1585 mm)
Width	46 in (1168 mm)	45.6 in (1158 mm)
Height	57 in (1448 mm)	56.5 in (1436 mm)
Weight (dry)	3210 lbs (1456 kg)	3210 lbs (1456 kg)

Rated Power Output

Maximum (7123-7400)	
Gross Power	633 BHP (480 kW) @ 2300 RPM
Peak Torque	1738 lb ft (2356 N·m) @ 1200 RPM
Minimum (7123-7000)	
Gross Power	370 BHP (276 kW) @ 2100 RPM
Peak Torque	1028 lb ft (1394 N·m) @ 1200 RPM
Continuous	
Gross Power	439 BHP (327 kW) @ 1800 RPM
Peak Torque	1436 lb ft (1947 N·m) @ 1200 RPM

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

Equipment Specifications

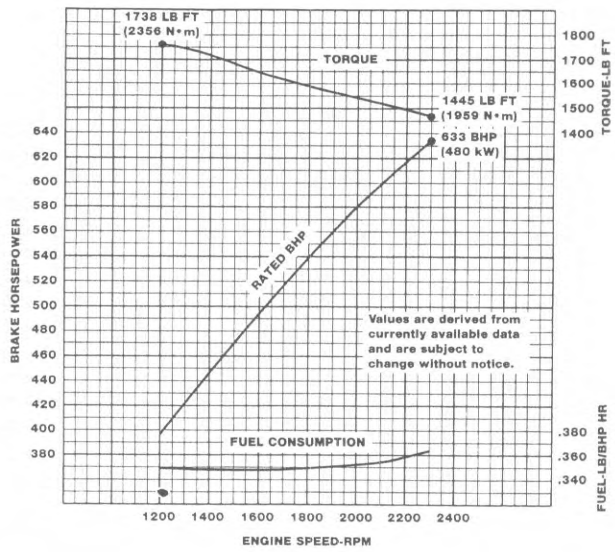
Aftercooler—(TA) only
Alternator—24 volt, 65 amp
Blower—With bypass valve
Engine Oil Cooler
Fan—36 in, 8 blade suction
Flywheel—SAE #½
Flywheel Housing—SAE #½
Governor—Limiting speed
Lifter Eyes
Oil Pan—20°-30°
Oil and Fuel Filters
Starting Motor—24 volt
Turbocharger—High efficiency model TV7502, 1.08 A/R
Water and Oil Pumps

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

633 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.

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CORPORATION

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3SA368 8803 As technical advancements continue, specifications will change. Litho in USA