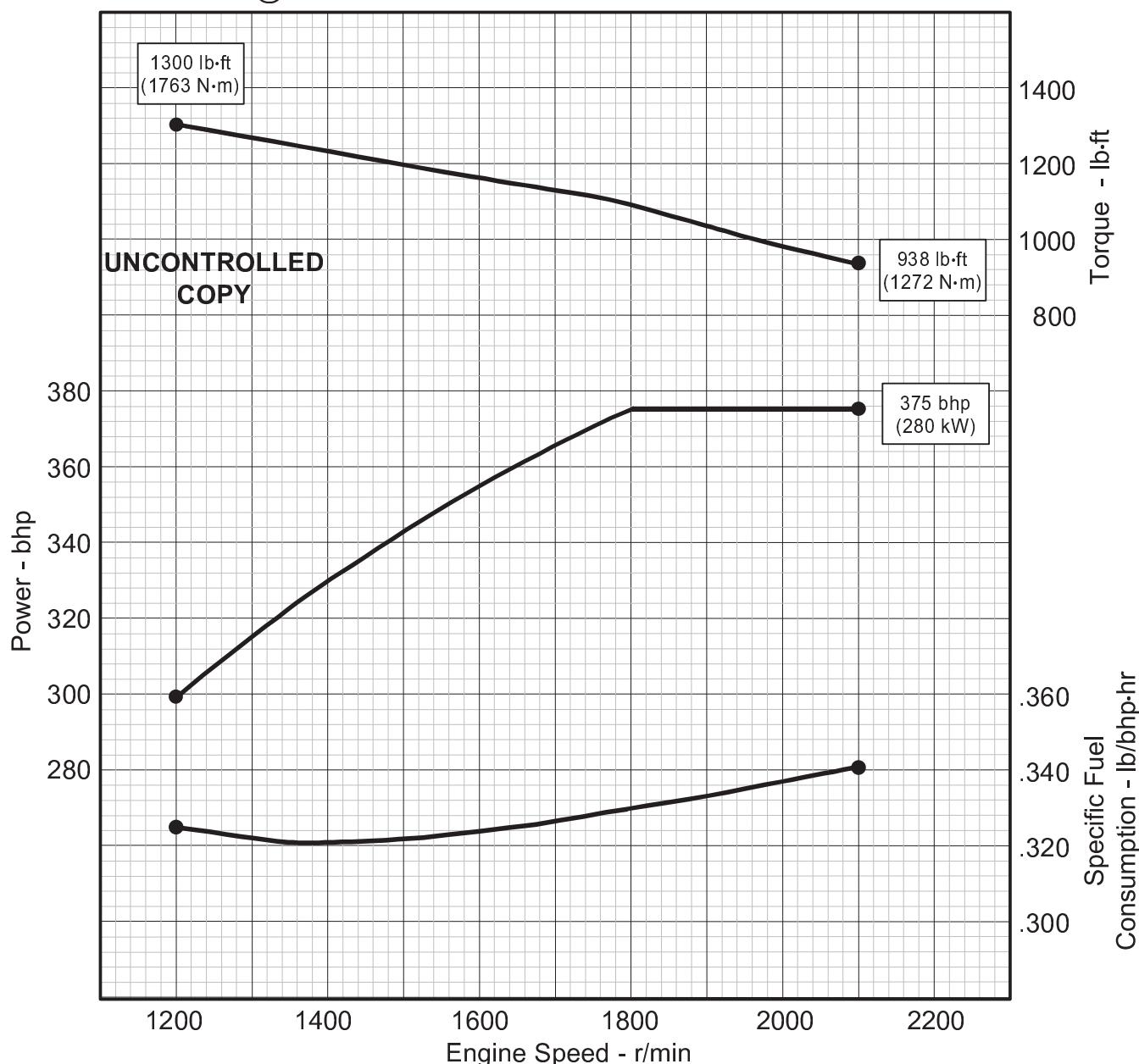


DETROIT DIESEL**Industrial Power****Model:** Series 60®**Rating:** 375 bhp @ 2100 r/min
1300 lb·ft @ 1200 r/min**Certification:** MSHA

Power output guaranteed within 5% at SAE J1995 conditions:
77°F (25°C) air inlet temperature; 29.31 in. Hg (99kPa) dry barometer;
100°F (38°F) fuel inlet temperature; .653 specific gravity at 60°F (15°C)
Charge air cooler system pressure drop: 16 in. H₂O (4 kPa)
Charge air cooler system temperature out: 97°F (36°C)
Air intake restriction: 10 in. H₂O (2.5 kPa)
Exhaust Back Pressure: 15 in. H₂O (3.7 kPa)

Conversion Factors:
Power: kW = bhp x 0.746
Fuel: kg/kW · hr = lb/bhp · hr x 0.608
Torque: N · m = lb · ft x 1.356

Turbo: TMF55 (1.34 A/R)
Injector: 5235695

Certified by: Phil Remmey

Curve No. E4-6063-32-60
Rev. / Date: 3 / 7-27-98
Sheet No. 1 of 2

Performance Curve

CONSTRUCTION AND INDUSTRIAL SPECIFICATION SHEET

General Data

Model	6063-TK32
Number of Cylinders.....	6
Bore and Stroke – in. x in. (mm x mm).....	5.12 x 6.30 (130 x 160)
Displacement – in. ³ (L).....	778 (12.7)
Compression Ratio.....	15.0:1
Piston Speed – ft/min (m/min).....	2205 (562)
Intake Valves Per Cylinder.....	2
Exhaust Valves Per Cylinder.....	2
Combustion System	Direct Injection
Engine Type	Inline 4 Cycle
Aspiration.....	Turbocharged

Configuration

Injection Device	EUI
Turbocharger.....	TMF55 (1.34 A/R)
Charge Air Cooling.....	Air to Air
Low Idle Speed – r/min.....	600
High Idle Speed – r/min.....	2225
Engine Crankcase Vent System	Open

Physical Data

Size:	
Length – in. (mm).....	57.2 (1453)
Width – in. (mm).....	35.0 (889)
Height – in. (mm).....	54.2 (1377)
Weight, Dry – lb (kg).....	2570 (1166)
Weight, Wet – lb (kg)	2692 (1221)

Center of Gravity Distance:

From R.F.O.B. (x axis) – in. (mm)	22.3 (566)
Above Crankshaft (y axis) – in. (mm)	8.6 (218)
Right of Crankshaft (z axis) – in. (mm)	-1.4 (-35.6)

Installation Drawing 23518218.

Mechanical Data

Thrust Bearing Load Limit, Continuous – lb (N)	900 (4000)
Thrust Bearing Load Limit, Intermittent – lb (N)	1800 (8000)
Maximum Static Bending Moment at Rear	
Face of Block – lb·ft (N·m)	1000 (1356)
Additional Mechanical Data	E4-6060-32-1

Fuel System

Fuel Injector	5235695
Injection Timing Height – mm.....	78.8
Fuel Consumption – lb/hr (kg/hr)	127.9 (58.0)
Fuel Consumption – ga/hr (L/hr)	18.3 (69.3)
Fuel Spill – lb/hr (kg/hr)	479 (217)
Fuel Spill – gal/hr (L/hr)	68.5 (259)
Total Fuel Flow – lb/hr (kg/hr)	607 (275)
Total Fuel Flow – gal/hr (L/hr)	86.8 (329)
Maximum Fuel Inlet Temperature – °F (°C)	140 (60)
Maximum Fuel Pump Suction:	
Clean System – in. Hg (kPa)	6 (20.3)
Dirty System – in. Hg (kPa)	12 (41)
Fuel Filter Size, Primary – microns	25
Fuel Filter Size, Secondary – microns	8
Fuel Spill Restrictive Fitting – in. (mm)	0.08 (2.03)

Lubrication System

Oil Pressure at Rated Speed – lb/in. ² (kPa)	50 (345)
Oil Pressure at Low Idle – lb/in. ² (kPa)	12 (83)
In Pan Oil Temperature – °F (°C)	235 (113)
Oil Flow – gal/min (L/min)	36 (136)
Oil Pan Capacity, High Limit	32 (30)
Oil Pan Capacity, Low Limit	26 (25)
Total Engine Oil Capacity with Filters – qt (L)	38 (36)
Oil Filter, Two Full Flow – microns	30
Engine Angularity Limits, Front Up – Degrees	27
Engine Angularity Limits, Front Down – Degrees	27
Engine Angularity Limits, Side Tilt – Degrees	21

Electrical System

Recommended Battery Capacity (CCA @ 0°F):	
12 Volt System	1875
24 Volt System	950
Maximum Resistance of Starting Circuit:	
12 Volt System – ohms	0.0012
24 Volt System – ohms	0.002

Cooling System

Engine Heat Rejection to Coolant:	
Rated Speed – Btu/min (kW)	5810 (102.2)
Peak Torque Speed (1200 r/min) – Btu/min (kW)	5150 (90.6)
Charge Air Cooler Heat Rejection:	
Rated Speed – Btu/min (kW)	4380 (77.0)

 Peak Torque Speed (1200 r/min) – Btu/min (kW)

 Engine Radiated Heat:

 Rated Speed – Btu/min (kW)

 Peak Torque Speed (1200 r/min) – Btu/min (kW)

 Coolant Flow:

 Rated Speed – gal/min (L/min)

 Peak Torque Speed (1200 r/min) – gal/min (L/min)

 Thermostat:

 Start to Open – °F (°C)

 Fully Open – °F (°C)

 Minimum Water Pump Inlet Pressure – lb/in.² (kPa)

 Engine Coolant Capacity – qt (L)

 Minimum Pressure Cap – lb/in.² (kPa)

 Maximum Coolant Pressure

 (Exclusive of Pressure Cap) – lb/in.² (kPa)

 Maximum Top Tank Temperature – °F (°C)

 Minimum Top Tank Temperature – °F (°C)

 Minimum Coolant Fill Rate – gal/min (L/min)

 Deaeration, Air Injection Capacity – ft³/min (m³/min)

 Minimum Drawdown Requirement – qt (L)

Air System

 Maximum Ambient to Turbo Compressor Inlet

 Temperature Rise – °F (°C)

 Maximum Air Intake Restriction:

 Clean Air Cleaner – in. H₂O (kPa)

 Dirty Air Cleaner – in. H₂O (kPa)

 Engine Air Flow: Rated Speed – ft³/min (m³/min)

 Peak Torque Speed – ft³/min (m³/min)

 Manifold Pressure – in. Hg (kPa)

 Recommended Intake Pipe Diameter – in. (mm)

 Maximum Charge Air Cooler System Total

 Pressure Drop – in. Hg (kPa)

 Maximum Intake Manifold Temp. – °F (°C)

 Maximum Crankcase Pressure – in. H₂O (kPa)

Exhaust System

 Exhaust Flow: Rated Speed – ft³/min (m³/min)

 Peak Torque Speed – ft³/min (m³/min)

 Exhaust Temperature Rated Speed – °F (°C)

 Peak Torque Speed – °F (°C)

 Maximum Back Pressure – in. Hg (kPa)

 Recommended Exhaust Pipe Diameter:

 Single – in. (mm)

 Dual – in. (mm)

Performance Data

 BMEP – lb/in.² (kPa)

 Friction Power: Rated Speed – fhp (kW)

 Peak Torque Speed – fhp (kW)

 Altitude Capability – ft (m)

 Torque Available at 800 r/min – lb·ft (N·m)

Engine Speed r/min	Rated Power bhp (kW)	Rated Torque lb·ft (N·m)	Rated BSFC lb/bhp·hr (g/kW·hr)
2100	375 (280)	938 (1272)	0.341 (207)
1950	375 (280)	1010 (1369)	0.335 (204)
1800	375 (280)	1094 (1484)	0.330 (201)
1650	360 (269)	1146 (1554)	0.325 (198)
1500	342 (255)	1197 (1624)	0.322 (196)
1350	321 (239)	1249 (1693)	0.321 (195)
1200	297 (222)	1300 (1762)	0.325 (198)

Emissions Data

Smoke, Rated Speed – Bosch Number	0.4
Noise – dB(A) @ 1	1.2
Additional Noise Data	102.5
Certification	Not Available
MSHA Certificate Number	MSHA*
	24/D147-0

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Curve No. E4-6063-32-60

Rev. / Date: 3 / 7-27-98

Sheet No. 2 of 2

All information subject to change without notice.

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* MSHA certified ventilation requirement under Part 32, Title 30 of the CFR for use in non-gassy, non-coal mines - 41,000ft³/min (cfm)

All values are at rated speed and power at SAE J1995 with standard engine hardware, unless otherwise noted.