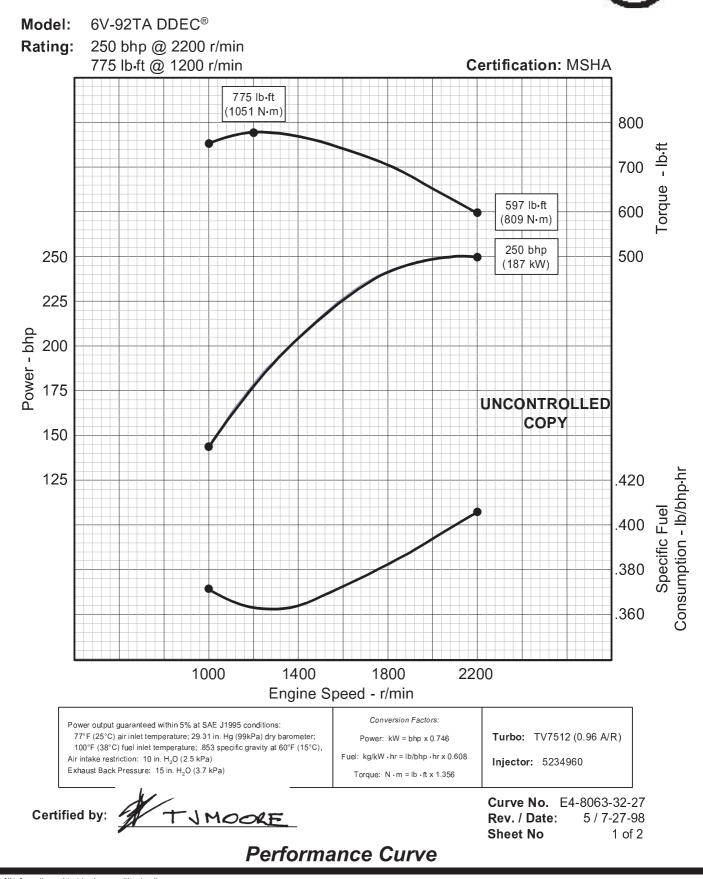


Industrial Power



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CONSTRUCTION AND INDUSTRIAL SPECIFICATION SHEET

General Data	
Model	8063-7K32
Number of Cylinders	8
Bore and Stroke – in. x in. (mm x mm)	4.84 x 5.00 (123 x 127)
Displacement – in. ³ (L)	
Compression Ratio Piston Speed – ft/min (m/min)	
Exhaust Valves Per Cylinder	
Combustion System	
Engine Type	63.5° VEE 2 CYCLE
Aspiration	TURBOCHARGED
Configuration Injection Device	
Turbocharger	
Blower Type	
Blower Drive Ratio	
Charge Air Cooling	
Low Idle Speed – r/min	500
High Idle Speed – r/min Engine Crankcase Vent System	
Physical Data	OFEN
Size:	
Length – in. (mm)	36.1 (917)
Width – in. (mm)	
Height – in. (mm)	
Weight, dry – lb (kg)	
Weight, wet – Ib (kg) Center of Gravity Distance:	2113 (959)
From R.F.O.B. (x axis) – in. (mm)	9.4 (239)
Above Crankshaft (y axis) – in. (mm)	
Right of Crankshaft (z axis) – in. (mm)	
Installation Drawing	23506363
Mechanical Data	600 (2670)
Thrust Bearing Load Limit, Continuous – Ib (N) Thrust Bearing Load Limit, Intermittent – Ib (N)	
Maximum Static Bending Moment at Rear	1000 (0001)
Face of Block – Ib ft (N·m)	
Maximum Weight on Crankshaft – Ib (kg)	
Additional Mechanical Data	E4-8000-32-1
Fuel System Fuel Injector Part Number	5234060
Injection Timing Height – in.	
Fuel Consumption – Ib/hr (kg/hr)	
Fuel Consumption – gal/hr (Ľ/hr)	
Fuel Spill – Ib/hr (kg/hr)	
Fuel Spill – gal/hr (L/hr)	
Total Fuel Flow – Ib/hr (kg/hr) Total Fuel Flow – gal/hr (L/hr)	
Maximum Fuel Inlet Temperature – °F (°C)	140 (60)
Maximum Fuel Pump Suction:	
Clean System – in. Hg (kPa)	
Dirty System – in. Hg (kPa)	
Fuel Filter Size, Primary – microns	
Fuel Filter Size, Secondary – microns	14
Oil Pressure at Rated Speed – Ib/in. ² (kPa)	49-70 (338-483)
Oil Pressure at Low Idle – Ib/in. ² (kPa)	5 (34)
In Pan Oil Temperature – °F (°C)	200 – 250 (93 – 121)
Oil Flow – gal/min (L/min)	37.0 (140)
Oil Pan Capacity: > 24 Hour Operation High Limit – qt (L)	20 (10)
Low Limit – qt (L)	16 (15)
Total Engine Oil Capacity with Filters – qt (L)	22 (21)
Engine Angularity Limits, Front Up – degrees	
Engine Angularity Limits, Front Down – degrees	
Engine Angularity Limits, Side Tilt – degrees	5
Electrical System Recommended Battery Capacity (CCA @ 0°F):	
12 Volt System, Above 32°	1900
12 Volt System, Below 32°	2500
24 Volt System, Above 32°	950
24 Volt System, Below 32°	1250
Maximum Resistance of Starting Circuit:	0.0012
12 Volt System – ohms 24 Volt System – ohms	0.0012
	0.002

Cooling System	
Engine Heat Rejection – Btu/min (kW):	10010 (176)
Engine Radiated Heat – Btu/min (kW)	
Coolant Flow – gal/min (L/min)	
Minimum Coolant Flow – gal/min.	
Thermostat:	
Start to Open – °F (°C)	
Fully Open – °F (°C)	
Minimum Water Pump Inlet Pressure:	197 (92)
Rapid Warmup Radiator – in. Hg (kPa)	DOSITIVE
Conventional Radiator – in. Hg (kPa)	
Engine Coolant Capacity – qt (L)	
Minimum Pressure Cap – Ib/in. ² (kPa)	24.3 (23)
Maximum Coolant Pressure	9 (62)
(Exclusive of Pressure Cap – Ib/in. ² (kPa)	15 (102)
Maximum Top Tank Temperature – °F (°C)	13(103)
Minimum Top Tank Temperature – °F (°C)	210 (99)
Minimum Top Tank Temperature – F (C)	100 (71)
Minimum Coolant Fill Rate – gal/min (L/min) Air Handling Capacity – ft ³ /min (m ³ /min)	3 (11.4)
Minimum Drawdown Requirement – gt (L)	
Deaeration Time – minutes	30
Air System Maximum Temperature Rise	
(Ambient Air to Engine Inlet) – °F (°C)	20 (16 7)
Maximum Air Intake Restriction:	30 (10.7)
	10 (2 0)
Clean Air Cleaner – in. H ₂ O (kPa) Dirty Air Cleaner – in. H ₂ O (kPa)	12(3.0)
Engine Air Flow – $ft^3/min (m^3/min)$	20 (0.0)
Engine Air Flow – It /Initi (III /Initi) Engine Air Box/Manifold Pressure – in. Hg (kPa)	1030(29.2)
Recommended Intake Pipe Outer Diameter:	52.0 (175.0)
Single – in. (mm)	6.0 (152)
Dual – in. (mm)	
Maximum Crankcase Pressure – in. H ₂ O (kPa)	
Exhaust System	3.0 (0.75)
Exhaust Flow – ft ³ /min (m ³ /min)	2180 (61 7)
Exhaust Temperature – °F (°C)	2100 (01.7)
Maximum Back Pressure – in. Hg (kPa)	3.0 (10.0)
Recommended Exhaust Pipe Diameter:	5.0 (10.0)
Single – in. (mm)	5.0 (127)
Dual – in. (mm)	
Performance Data	Not Applicable
BMEP – Ib/in. ² (kPa)	85 0 (589)
Friction Power:	00.0 (000)
Rated Speed – fhp (kW)	84 (64)
Peak Torque Speed – fhp (kW)	
Altitude Capability – ft (m)	
Torque Available at 800 r/min – Ib ft (N·m)	

Engine Speed r/min	Rated Power bhp (kW)	Rated Torque lb∙ft (N∙m)	Rated BSFC Ib/bhp⋅hr (g/kW⋅hr)
2200	250 (187)	597 (809)	0.406 (247)
2100	250 (187)	625 (847)	0.400 (243)
1950	247 (184)	665 (902)	0.391 (238)
1800	241 (180)	703 (953)	0.382 (232)
1650	230 (172)	732 (992)	0.375 (228)
1500	215 (160)	753 (1021)	0.368 (224)
1350	197 (147)	766 (1039)	0.364 (222)
1200	177 (132)	775 (1051)	0.363 (221)
1000	143 (107)	751 (1018)	0.371 (226)

Emissions Data

Noise – dB(A) @ 1	98.0
Additional Noise Data	Not Available
Certification Approval	MSHA #
MSHA Certificate Number	24 / D140-0

 * MSHA certified ventilation requirement under Part 32, Title 30 of the CFR for use in non-gassy, non-coal mines - 32,000ft^3/min (cfm)

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

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