



EM6-285 (R)

ESI PLUS & TWO STAGE CHARGE AIR COOLING SHOWN

P.O. Box 364, Darra, Q. 4076. Telegrams: "Macktrucks" Bris. Telex: MTA AA41473.

EM6-285 (R)

CAMSHAFT:

Material Carbon Steel; Carburized Hardened Journals and Lobes
Bearings
Type Precision Insert
Number 7
Diameter 62 mm (2.438")
Timing Drive Spur Gears, Located Front of Engine

VALVES & LIFTERS:

Valves
Number & Location Two Per Cylinder, in Cylinder Head
Inlet
Type 30° Seat, Poppet with Positive Rotators
Lift 14 mm (.56")
Exhaust
Type 30° Seat, Poppet with Positive Rotators
Lift 14 mm (.56")
Valve Lifters
Type, Material Mushroom Type, Dura-faced (Tungsten Carbide)
Valve Seat Inserts
Inlet, Material Cast Iron Base Alloy
Exhaust, Material Cast Nickel Base Alloy
Type Pressed in Cylinder Head

MANIFOLDS:

Air Inlet 2-Piece, 6 Ports
Exhaust 3-Piece, 6 Ports
Water 2-Piece, 4 Ports

CHARGE AIR COOLING SYSTEM:

Type 2-Stage
Stage One Air-to-Water Cooler Core Copper Plate, Cross Flow
Stage Two Air-to-Air Cooler Core Alum. Plate, Cross Flow
Tip Turbine Fan Air Driven
Lubrication Permanently Greased Ball Bearing

FUEL SYSTEM:

Fuel Injection Pump
Make & Model American Bosch, APE6-BB or Robert Bosch PES-6P
Type Multiple Plunger, Flange Mounted, MACK Puff Limiter
Drive Gear
Timing Fixed
Transfer Pump
Type American Bosch—Plunger Integral w/Injection Pump; Robert Bosch—Non-Pulsating Gear Type
Fuel Oil Filters, Primary & Secondary
Type Spin-On Disposable
Injection Nozzles
Type Five Hole Spray
Governor
Make American Bosch or Robert Bosch

FUEL SYSTEM: (Cont'd.)

Type Mechanical, Integral with Injection Pump

LUBRICATION SYSTEM:

Type Full Pressure, Wet Sum
Filters
Type Triple Spin-On (ESI - Plus) Full Flow, Disposable
Capacity 1.9 litres (1.6 Qts)
Engine Lube Oil Cooler
Type Shell with Removable Tube Bundle
Location L.H. Side of Engine at Front
Capacity 1.4 litres (1.2 Qts)
Lower Crankcase
Capacity 48.2 litres (42.3 Qts) ESI - Plus 51 [48.2] (ESI - Plus)
Oil Level Indicator Optional Float Type, (Not Released for Engines with a Front Sump)
Total Engine Lube Oil (Including Crankcase, Filters, Cooler, Cylinder Block & Heads)
Capacity 55.4 litres (48.5 Qts) ESI - Plus
Oil Change Interval
ESI - Plus 40 250 km (25 000 mls.)
Oil Pan Drain Plug Magne

CRANKCASE VENTILATION:

Type Atmospheric Overboard Breather Tube

COOLING SYSTEM:

Water Pump
Type Centrifugal - Rotor Drive Belt
Thermostat
Standard 180°F Opening with Stainless Steel Vent Pins, Minimum Leak Type Designed for Shutterless Cooling System
Coolant Conditioner
Type Spin-On, Disposable

AIR COMPRESSOR:

Make Bendix-Westinghouse or Midland-Ross
Model Bendix-Westinghouse Tu-Flo 501 or Midland Ross EL-1300
Rated Displacement at 1250 r/min.
Tu-Flo 501 5.7 L/s (12 cfr)
EL-1300 6.1 L/s (12.9 cfm)
Type Flange Mounted, Gear Driven, Engine Oil Lube, Engine Water Cooled

TURBOCHARGER:

Make & Model Schwitzer, 4LE292 or AiResearch, TV63
Type Exhaust Gas Driven, Radial Flow
Lubricating & Cooling Pressurized Engine Oil

WEIGHT, DRY: (approx.)

Two-Stage Charge Air Cooling
ESI - Plus 997 kg (2199 lbs.)

(with Clutch Assembled and Air Compressor but no Oil, Water, Starter, Fan or Alternator)

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CERTIFIED AS TRUE
PERFORMANCE
WITHIN 5%:

Heils

MACK ENGINE PERFORMANCE

MODEL: EM6-285 NO. CYL. 6 BORE: 124 mm [4.88]
STROKE: 152 mm [6.0in.] DISPLACEMENT: 11.0 L [672 in.³]
DATE: 2/8/80 TEST STANDARD: S A E J816b
CORRECTED TO: 98 kPa [29.00 in. Hg] & 29.4°C [85°F] DRY AIR

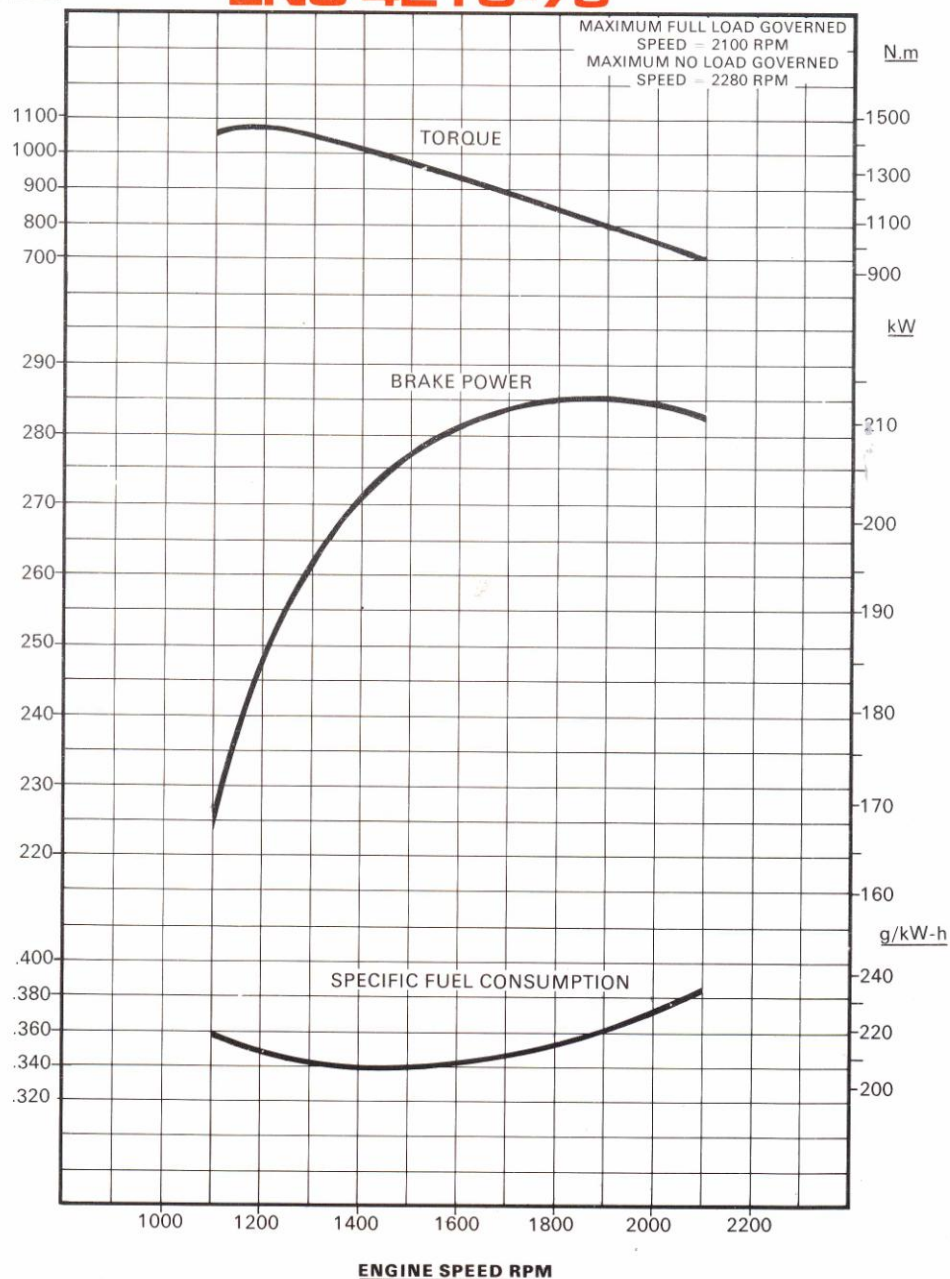
ENC 421 S-79

TORQUE
LB.FT.

BRAKE
POWER
HP

B.S.F.C.
LB/BHP-HR

FORM ED 9025-1





CERTIFIED AS TRUE
PERFORMANCE
WITHIN 5%:

Charles

MACK ENGINE PERFORMANCE

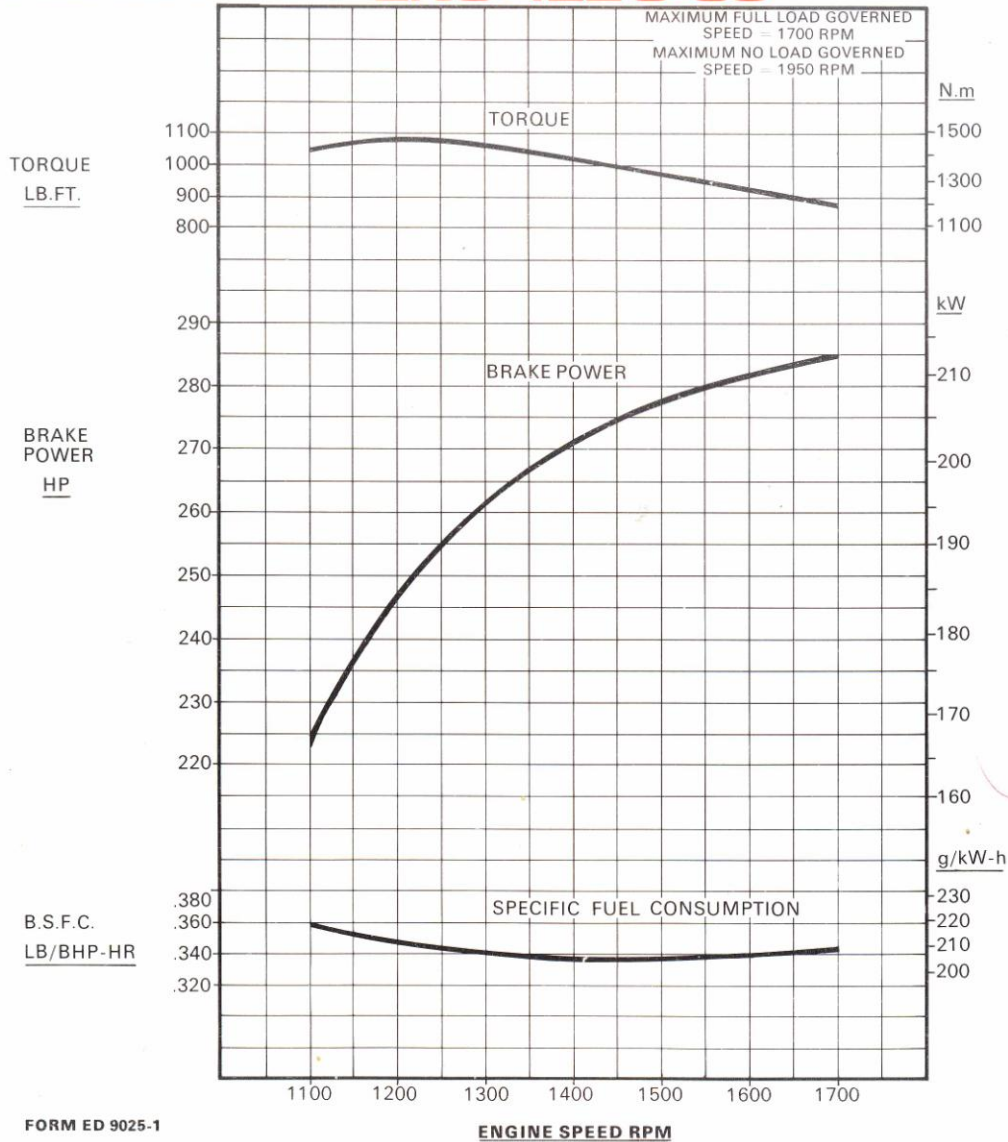
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WF 4/81