



ENGINE / ENDT 673C

THERMODYNE DIESEL:

Make	Mack
Type	Turbocharged
Number of cylinders	Six
Bore and stroke	4 $\frac{7}{8}$ "x6"
A.M.A. horsepower	57
Brake horsepower @	
2100 rpm (gov.)	250
Piston displacement	672 cubic inches
Compression ratio	16.59:1
Max. torque @ 1600 rpm	701 pound feet

CYLINDER BLOCK:

Cylinder block	Chromium-nickel-copper alloy iron
Cylinder sleeves	Special alloy iron, phosphate coated
Type	Dry
Cylinder heads cast in	Threes

PISTONS:

Pistons, material	Aluminum alloy
Piston rings, compression	Three (top ring chrome plated)
Oil control	Two (chrome plated)
Wristpin, type	Full-floating
Diameter	1 $\frac{3}{4}$ "
Retention	Snap rings

CONNECTING RODS:

Type	Drop-forged I-beam
Cap angle	35°
Length, center to center	11 $\frac{1}{4}$ "

CRANKSHAFT:

Type	Integral counterweights
Material	Medium carbon steel, Induction hardened journals
Weight	230 lbs.
Vibration damper	Viscous type
Main bearings, material	Copper-lead, steel back with babbitt overlay
Number and diameter	Seven, 4"
Total length	10-15/16"

CAMSHAFT:

Bearings	Seven
Timing drive	Mild carbon steel, case hardened, generator ground helical gears

VALVES:

Valve lifter, type	Mushroom, Dura-faced (Tungsten-carbide)
Inlet and exhaust valve seats	Permanently fitted inserts of high-alloy, heat-resistant metal
Valves, location	Overhead
Exhaust	Hard faced, with positive type rotators
Clear dia. of ports, inlet	2-3/64"
Exhaust	1-11/16"
Lift, Inlet and Exhaust	9/16"
Material, inlet	Chromium-silicon steel, Stellite faced
Exhaust	Stabl-ite (face, Stellite; head and upper end of stem, chromium-Nickel-Nitrogen Austenitic steel; lower end of stem, Nickel-Chromium-Molybdenum steel)

FIRING ORDER:

1-5-3-6-2-4

FUEL SYSTEM:

Fuel injection pump, make	American Bosch, APE
Type	Multiple unit, flange mounted
Transfer pump, type	Plunger
Nozzles, type	Four-hole spray
Fuel filters	Primary and secondary
Governor, make	American Bosch
Type	Mechanical
Optional type	Woodward (hydraulic)

TURBOCHARGER:

Type	Exhaust gas driven, centrifugal
Lubrication and cooling	From engine (oil)

AIR SUPPLY:

Air cleaner	Donaldson, oil bath
Oil capacity	8 pints
Air compressor (gear driven)	Tu-Flo 500 (12 cu. ft.)

COOLING SYSTEM:

Thermostat, to open	170°
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LUBRICATING SYSTEM:

Lubrication, oil filter:	
Make and model	W. G. B., WB-5
Type	Combination full-flow by-pass
Capacity	12 quarts
Oil capacity, including filters	33 quarts



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Curve Sheet DD-4

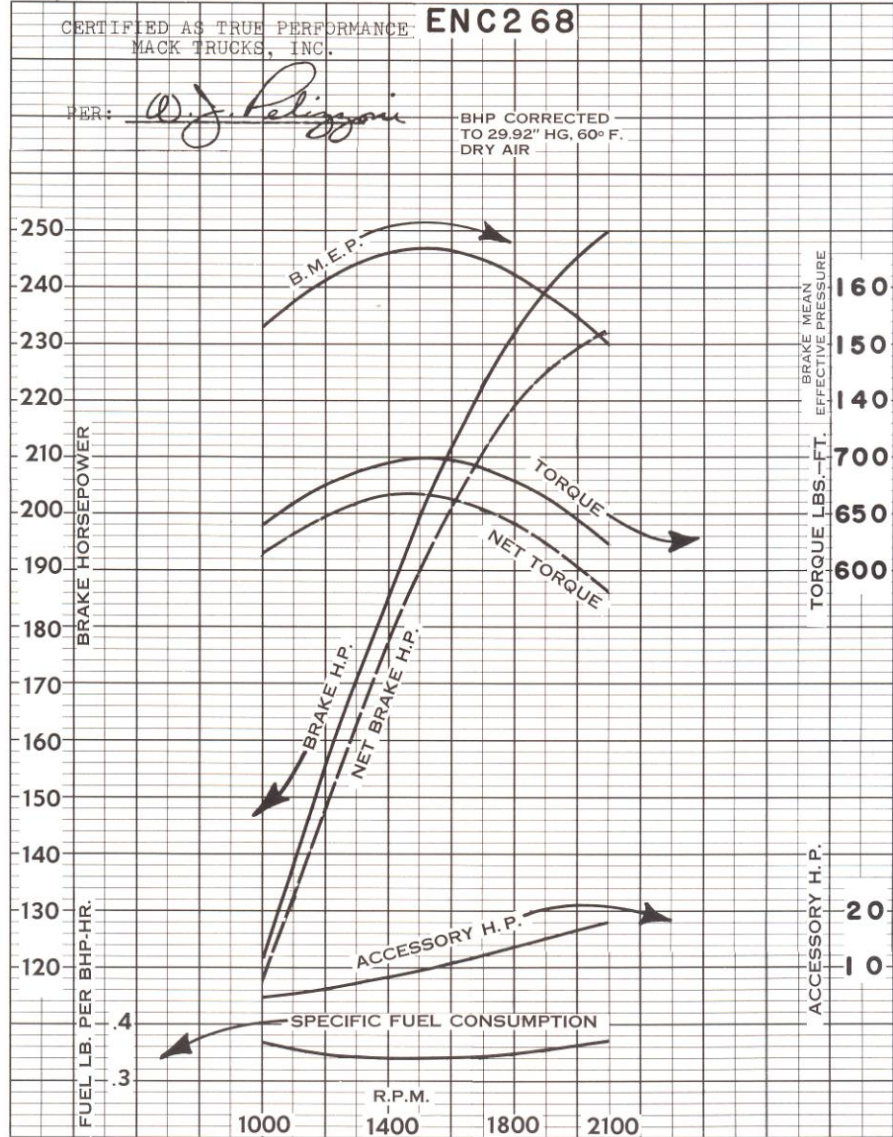
SAE DIESEL ENGINE TEST CODE

Test No. _____

Eng. Mfr. **MACK** Model **ENDT673C** Serial No. _____ Date _____

No. Cyl. **6** Bore **4 7/8** Stroke **6"** Displacement **672 CU. IN.**

Fuel **DIESEL** For Details see Mech. Inform. Sheet **ENDT673C-70A** and Log Sheet **T-1A-3**



MACK TRUCKS, INC.
ALLENTOWN, PA. "THE TRUCK CAPITAL OF THE WORLD"