



ENGINE / END 673C & ENDL 673C

DETAIL SPECIFICATIONS

THERMODYNE DIESEL:

Make	Mack
Type	Naturally aspirated
Number of cylinders	Six
Bore and stroke	4 $\frac{7}{8}$ " x 6"
A.M.A. horsepower	57.0
Brake horsepower @ 2100 rpm (gov.)	187
Piston displacement	672 cubic inches
Compression ratio	15:81:1
Max. torque @ 1400 rpm	527 lb.-ft.

CYLINDER BLOCK:

Construction	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 $\frac{5}{8}$ "
Retention	Snap rings

CONNECTING RODS:

Type	Drop-forged I-beam
Cap angle	35°
Length, center to center	11 $\frac{1}{4}$ "
Bearings material	Copper-lead, steel back with babbitt overlay
Crankpins, dia. & length	3" x 2 $\frac{1}{4}$ "

CRANKSHAFT:

Type	Integral counterweights
Material	Medium carbon steel, induction hardened journals
Weight	228 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, Durafaced (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 & 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	American Bosch, PSM
Type	Single plunger
Drive	Gear
Timing	Variable automatic
Transfer pump, type	Gear
Nozzles, type	Four-hole spray
Fuel filters	Primary and secondary
Governor, make	American Bosch
Type	Mechanical

MANIFOLDS:

Inlet	1 piece, drawn steel
Exhaust	3 piece, 6 port

AIR SUPPLY:

Air cleaner	Donaldson, oil bath (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	31 quarts

*Engine Model ENDL 673C is the same as Model END 673C except for having the flywheel housing of aluminum instead of iron.



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SAE DIESEL ENGINE TEST CODE

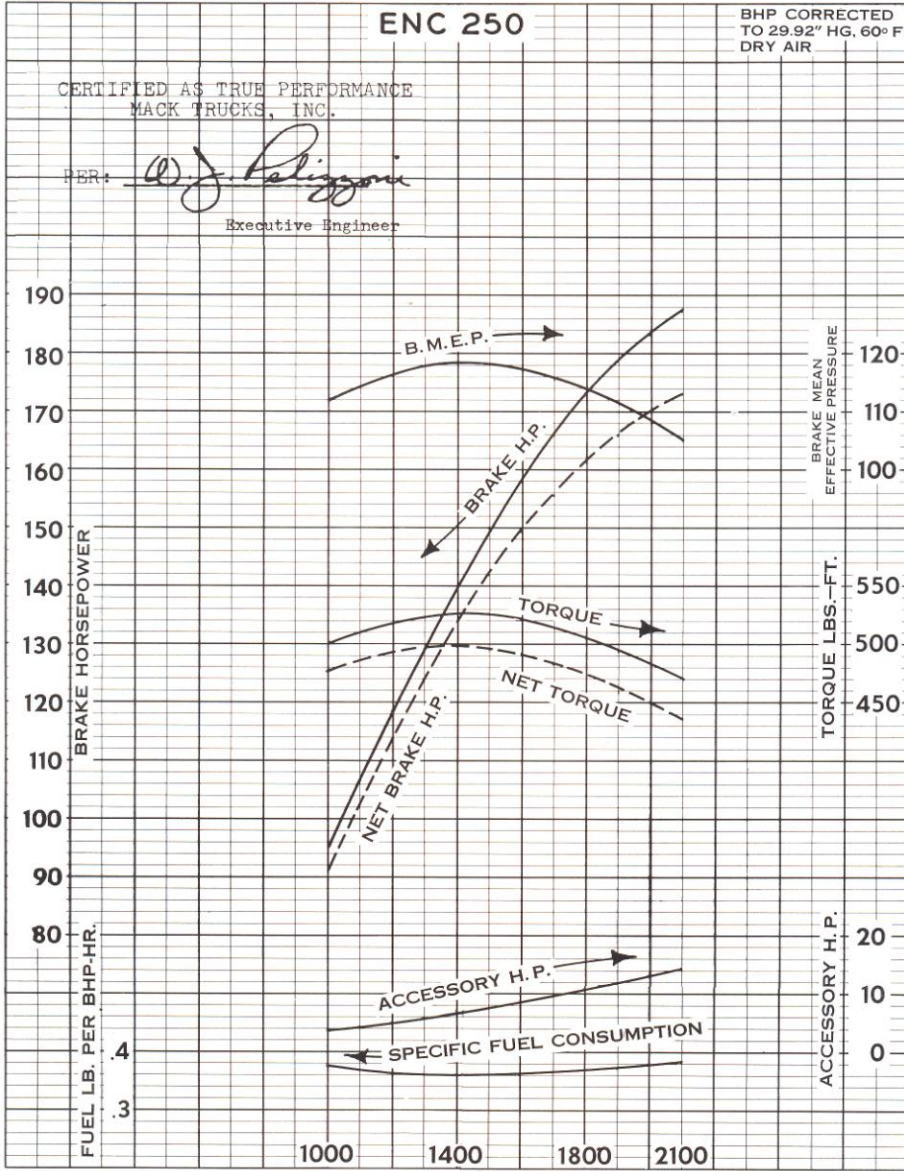
Curve Sheet DD-4

Test No. _____

Eng. Mfr. **MACK** Model **END673C** Serial No. _____ Date _____

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

Fuel **DIESEL** For Details see Mech. Inform. Sheet **END 673-70A** and Log Sheet **T-4A-18**



MACK TRUCKS, INC. • ALLENTOWN, PA.