Mack engine

END 673E ENDL 673E

diesel



cifications subject to change hout notice. Illustrations are not essarily a representation of hadrd specifications



THERMODYNE DIESEL:

Make				*1								Mack
Type .		٠.										Naturally
												aspirated
Numbe	r o	cy	lir	d	er	S			٠			Six
Bore a	nd	str	oke	9					÷			47/8" x 6"
A.M.A.	ho	rse	po	W	er							57.0
Brake	hor	sep	OW	/e	r	(a)					
210	0 r	pm	(1	go	٧.)	,					180
												672 cubic
		60000										inches
Compre	essi	on	ra	iti	0				į.			16.11:1
Max. to												



The Mack END 673E is a naturally aspirated, four cycle, open chamber, overhead valve designed engine. Uniform cooling is achieved through directed water flow. Fully counter-balanced, induction case-hardened crankshaft with cool running hollow crank pins and a viscous type vibration damper are used.

Connecting rods are angle-split for easy removal through cylinder bore and are rifle bored

to lubricate piston pins. Cylinder sleeves are of the dry type and the valve lifters are Carboloy faced.

Lubrication is by the full-pressure wet-sump system. The injection tuning is automatically controlled at all speeds. The addition of a synchrovance contributes to smooth, flexible operation

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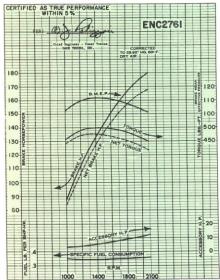


ENGINE/END 673E & ENDL 673E

DETAIL SPECIFICATIONS

CYLINDER BLOCK: Construction	Chromium-nickel- copper alloy iron
Cylinder liners	Special alloy iron Dry
Cylinder heads cast in	Threes
Pistons, material	Aluminum alloy, with insert for top ring
Piston rings, compression Oil control Wristpin, type Diameter	groove Three One Full floating 17/8"
Retention	Snap rings
CONNECTING RODS:	Drop forged, I-beam
Cap angle	35° 10"/16" Copper-lead, steel back, babbitt overlay
Crankpins, dia, & length	3" x 1 15/16"
CRANKSHAFT:	
Type	Integral counterweights Drop forged, medium carbon steel, induction hardened journals and pins
Weight Vibration damper Main bearings, material	242.5 lbs. Viscous type Copper-lead, steel back, babbitt overlay
Number and diameter Total length	Seven, 4" 103/4"
CAMSHAFT:	
Bearings	Seven Drop forged, medium carbon hobbed, shaved mor-tempered and honed gears
VALVES:	
Valve-lifter, type	Mushroom Durafaced (Tungsten carbide) Perma fit inserts of cobolt or nickel base
Valves, location	alloy cast material Overhead Hardfaced with positive type rotators
Clear dia. of ports, inlet Exhaust	23/64"
Lift, inlet & exhaust	.56" Chrome-silicon steel, stellite faced (Chrome plate stem)
Exhaust	Stellite faced; head and upper end of stem, chromium-nickel- nitrogen-austenitic steel; solution heat treated; lower end of stem, nickel-chromium- molybdenum steel

FIRING ORDER:	1-5-3-6-2-4					
FUEL SYSTEM: Fuel injection pump Type Drive Timing Transfer pump, type Nozzles, type Fuel filters Governor, make Type	American Bosch, APE Multiple unit Gear Synchrovance, variable automatic Plunger Four-hole spray Screw-on, throw-away American Bosch Mechanical					
MANIFOLDS: Inlet	drawn steel					
AIR SUPPLY: Air cleaner Air compressor (gear driven) .	Donaldson, oil bath Tu-Flo 500 (12 cu. ft.)					
COOLING SYSTEM: Thermostat, opening temp	170°					
LUBRICATING SYSTEM: Lubrication, oil filter: Make and model Type Capacity Oil capacity, including filters	WGB, WB-5G-M Combination full flow/ by pass 12 quarts 31 quarts					
CERTIFIED AS TRUE PERFORMANCE						



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