LEFT SIDE

RIGHT SIDE

TERMINAL BOX (EXHAUST (4) THERMOCOUPLES)
1" NPT ELECTRICAL

RACK TYPE SOLDER AMPLIFIER

¾" N.P.T. VENT TO EXPANSION TANK

OVERLOAD MICROSWITCH ½" NPT ELECTRICAL

EXHAUST CONN
6 HOLES 1¼ DIA EQ SP.D.
ON 25" DIA. B.C.

FACE OF RAW WATER PUMP SUCTION

SPACE NEEDED TO REMOVE RAW WATER PUMP

243 1/16

47 3/16

6

40 3/16

56 5/16

WATER OUTLET 8 HOLES ⅞ DIA
EQ SPACED ON 8½ D.B.C.
10" O.D. FLANGE (FOR 5 STD. 50# ASA FLANGE)

EXHAUST GAS INLET TEMP. ¾" N.P.T. CONN. (1 PER MANIFOLD)

HEATER ELECTRICAL RATING CHROMALOX ARNT 345 M.V. 440 V / 3 PH / 45 KW.

⅜ N.P.T.

C.G. DRY

C.G. WET

LIFTER BRACKET 2 HOLES 1 3/32 DIA

62 5/16 L.S.
60 1/16 R.S.

TO REMOVE CONTROL SHAFT

O.S. TRIP (ELEC.)

CRANKSHAFT

LUB OIL FILTER VENT CONN. ¾" N.P.T. (FROM FILTER TO ENGINE)

CUSTOMER TO PROVIDE 6" MIN. LENGTH SPACER IN PIPING FOR REMOVAL OF PUMP

SPACE NEEDED TO REMOVED JACKET WATER PUMP

FACE OF JACKET WATER PUMP FLANGE

SPACE NEEDED TO REMOVE LUB OIL PUMP

DATUM LINE (BOTTOM OF REAR FEET)

FACE OF LUB OIL PUMP DISCHARGE FLANGE

HEATER CONN. 4.5 KW.

LUBE OIL LEVEL SW. (DECCA 1515)

LUB OIL DRAIN PLUG FAR SIDE - 2" NPT

2 HOLES 2 3/8 DRILL 2 PLACES FOR MOUNTING BOLTS

134 1/4

NOTE ALL CUSTOMER CONNECTIONS SHOULD BE FLEXIBLE JOINTS

FREE END

2" REAM BOLTS (FITTED) PLAN BY CUSTOMER

SHIP STRUCTURE

* CHOCKS BY CUSTOMER

SECTION T-T
MOUNTING AT DRIVE END

4 HOLES 1 31/32 DRILL THRU TO BE REAMED BY CUSTOMER FOR 2" FOUNDATION BOLTS 4¼ DIA SPOTFACE, 5 5/8 THICK.

119½ ON ENGINE
119 15/16 ON FOUNDATION

CRANKSHAFT

CRANKPIN #6

CRANKPIN #1

1 JACKING SCREWS 15-D-71509-1

4 HOLES 2 3/8 DRILL THRU FOR 2" FOUNDATION BOLTS 4½ DIA SPOTFACE TO 5 5/8 THICK INCLUDING WEAR PLATES.

* CHOCKS BY CUSTOMER

2 MACH BOLTS SUPPLIED BY CUSTOMER

SHIP STRUCTURE

LEVELING PLATE FURN. BY CUSTOMER

SECTION R-R
MOUNTING AT FREE END.

WEIGHT TABLE

LUB OIL CAPACITY	143. GA.
TOTAL WEIGHT OF LUB. OIL IN BASE	1058. LB
TOTAL WEIGHT OF COOLANT	1600. LB
WATER IN ENGINE	
TOTAL WEIGHT OF ENGINE (DRY)	42020. LB
TOTAL WEIGHT OF ENGINE (AS")	44678. LB

TERMINAL BOX

WATER OUTLET # 1, 2, 3 ENGINE

WATER OUTLET # 3 4 5 ENGINE

AFTER COOLER WATER OUTLET 7½ O.D. FLANGE 4 HOLES ON 6" B.C. SUITABLE FOR 3" PIPE

AFTER COOLER WATER INLET COMPANION FLANGE 40 3 10 34 2 (5 3/32 I.D.) PLAN BY M.L.W. SUITABLE FOR WELDING 3" PIPE BY CUSTOMER

OVER SPEED TRIP ½ N.P.T. (ELEC.)

CONTROL SHAFT

EMERGENCY SHUT-DOWN

RAW WATER PUMP SUCTION - 6" 1 FLANGE 41 2 1 0284-1 1 GASKET (5.D. 1 6581-1 6 CAPSCREWS (M-11 x 1½ LG ZP 11626-056 6 LOCKWASHERS 5/8 IP 83504-020

FUEL OIL INLET 1 50 LB SM STD

WATER INLET

CRANKSHAFT

3" W. GUAGE ⅜ N.P.T.

FUEL OIL & WASTE DRAIN

FUEL PUMP SUPPLY PRESSURE ¼ NPT

LUB OIL BYPASS CONN. COMPANION FLANGE SUITABLE FOR WELDING 40 3 10 34 1 (5 3/32 I.D.). 1 GASKET (SC 15 08-1) 4 CAPSCREWS ⅝-11 x 1¾ LG (ZP 11626-056) 4 LOCKWASHER (IP 83504 020)

DATUM LINE (BOTTOM OF REAR FEET)

RAW WATER PUMP DISCHARGE PIPE ASSY B 40B-1 1326

DRILLING TO SUIT 6"-150 # R.F. FLANGE

WATER PUMP SUCTION, COMPANION 5" I.P.S. FLANGE 40 3 10 34 4 (5 3/32 I.D.) PLAN BY M.L.W. 1 GASKET (5-21-1 W.S.A.) 6 CAPSCREWS ⅝-11 x 1⅜ (ZP 1626-056) 6 LOCKWASHERS ⅝ (IP 83504-020)

LUB OIL RETURN FROM FILTERS AND COOLERS COMPANION FLANGE SUITABLE FOR WELDING, 40 3 10 34 3 (3½ I.D.) PLAN BY M.L.W. 1 GASKET (SC 15 08-1) 4 CAPSCREWS ⅝-11 x 1½ (ZP 1626-048) 4 LOCKWASHERS ⅝ (IP 83504-020)

LUB OIL PUMP DISCHARGE DRILLINGS TO SUIT 3"-125# STD. FLANGE

LUB OIL FILTER DRAIN CONN 1-HOLE ⅜ N.P.T.

EXCESS FUEL RETURN TO TANK ½ ASA FLANGE

VIEW E-E

2nd SHIPSET
B.D.D. HULL 222

C.G.E. "R" CLASS ICEBREAKER.
S.O.# 8029

CHANGE		IF NOT OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DATE NOV. 6/70	MLW Industries a Division of MLW-Worthington Limited MONTREAL CANADA	GENERAL OUTLINE 16 C. LINGER 251 MARINE ENGINE
		FRACT. ± DEC. ± ANG. ±	FINISHES	DRAWN MM		
		AUTH. NO.	TOOL NO.	CHKD AC		
		NEXT ASSY	REF. DWG.	CERT GD		SHT 1 OF 1 — 9028-007020
		PRINT LIMITS ON	ITEM NO(S)	DATE	THIS DRAWING IS THE PROPERTY OF MLW WORTHINGTON LIMITED. IT MAY NOT BE USED EXCEPT AS EXPRESSLY AUTHORIZED BY MLW WORTHINGTON LIMITED AND MUST BE RETURNED AFTER SUCH USE. MAKING COPIES WITHOUT EXPRESS PERMISSION IS PROHIBITED	

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