



ALL WEIGHTS FOR ENGINE AND TENDER IN WORKING ORDER

CORRECT

APPROVED

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ASST. ME.

M.E.

ITEM	BOILER	HEATING SURFACE	ENGL. CYLIND. TUBE SHEETS	DIA	GAUGE OR THICK	DESIGN DATA	GENERAL DATA
1	BOILER TUBES - 174 - SPACING - 3/4"	2091	20-6"	2 1/2"	12 MIN	CALCULATED EVAPORATION LBS./HR.	BOILER PRESSURE 200 LBS.
2	BOILER FLUES - 28 - SPACING - 1 3/4"	823	20-6"	5 1/2"	10 MIN	TUBES @ 8.69 LBS. 18170 LBS	TRACTIVE EFFORT 34490 LBS
3	TOTAL TUBES & FLUES	2914				FLUES @ 9.86 LBS. 8115 LBS	FACTOR OF ADHESION 4.14
4	FIREBOX PROPER	1190				FIREBOX @ 55 LBS. 10450 LBS	MAX. CURVATURE 16"
5	COMBUSTION CHAMBER					COMBUSTION CHAMBER	ENGINE TRUCK SWING 3 1/2"
6	ARCH TUBES - 4	29	9 1/2"	3 3/8"	7 8 MIN	ARCH TUBES @ 55 LBS 1595 LBS	TRAILING TRUCK SWING 4 1/2"
7	TOTAL FIREBOX	219				TOTAL EVAPORATION 38330 LBS	COAL CAPACITY 14 TONS
8	TOTAL EVAPORATING HEATING SURFACE	3133				ST. CONSUMPTION (1904 X 200) 39600 LBS	WATER CAPACITY 6000 GALS.
9	TOTAL SUPERHEATING HEATING SURFACE	670				BOILER FACTOR 96.18 %	VALVE GEAR WALSCHAERT
10	TUBE SHEETS - FT. 1/2" BK 1/2"					FIREBOX H.S. TO GRATE AREA 4.08	STOKER
11	GRATE AREA			53.5 SQ. FT.		TOTAL EVAR H.S. TO FIREBOX H.S. 114.3	FEED WATER HEATER
12	WEIGHT WATER 2" GAUGES					TOTAL EVAR H.S. TO SUPHTG. H.S. 4.68	THROTTLE CHAMBERS DOME TYPE IN CONN.
13						EVAP. ALL H.S. TO GRATE AND FLUES 92 %	MAX. CUT OFF 24 3/4"
14						FRAME CTRS 43" FRAME WIDTH 4 1/2"	

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