



ALL WEIGHTS FOR ENGINE AND TENDER IN WORKING ORDER

B38

CB

1/23/62

ITEM	BOILER	HEATING SURFACE	LENGTH OVER TUBES	DIA.	GAUGE OR THICK	DESIGN DATA	GENERAL DATA
1	BOILER TUBES - 223 SPACING - 3/4"	1741	15'-0"	2"	#12 MM.	CALCULATED EVAPORATION LBS. / HR.	BOILER PRESSURE 190 LBS.
2	BOILER FLUES - 36-SPACING - 3/4"	753	15'-0"	3 1/2"	#10 MM.	TUBES @ 9.9" LBS. 17360 LBS.	TRACTIVE EFFORT 55260 LBS.
3	TOTAL TUBES + FLUES	2514				FLUES @ 11.65" LBS. 9005 LBS.	FACTOR OF ADHESION 3.95
4	FIRE BOX PROPER	186				FIREBOX @ 33 LBS. 10280 LBS.	MAX. CURVATURE 25°
5	COMBUSTION CHAMBER					COMBUSTION CHAMBER	ENGINE TRUCK SWING
6	ARCH TUBES - 3	18	8'-10"	3"	#8 MM.	ARCH TUBES @ 55 LBS. 990 LBS.	TRAILING TRUCK SWING
7	TOTAL FIRE BOX	204				TOTAL EVAPORATION 37585 LBS.	COAL CAPACITY 13 TONS
8	TOTAL EVAPORATING HEATING SURFACE	2718				ST. CONSUMPTION @ 39220.8 44490 LBS.	WATER CAPACITY 8750 GALS.
9	TOTAL SUPERHEATING HEATING SURFACE	832				BOILER FACTOR 84.5%	VALVE BEAR SOUTHERN
10	TUBE SHEETS FT. 9 1/4" BK. 1/2"					FIRE BOX H.S. TO GRATE AREA 4.34	MAX. CUTOFF 90.2%
11	GRATE AREA				4750 FT.	TOTAL EVAP. H.S. TO FIRE BOX H.S. 19.93	THROTTLE CHAMBERS DOME TYPE - IN. CONN.
12	WEIGHT WATER REGAUGES					TOTAL EVAP. H.S. TO SUPHTG. H.S. 4.17	
13						GRATE AREA + ARCH TUBES + FLUES 110%	
14						FRAME CTRS. 41" FRAME WIDTH 5"	
15							