



ALL WEIGHTS FOR ENGINE AND TENDER IN WORKING ORDER

CAB 1/1/62

ITEM	BOILER	HEATING SURFACE	LENGTH OF TUBE SHEET	DIAM.	GUAGE OR THICK	DESIGN DATA	GENERAL DATA
1	BOILER TUBES - 210 SPACING - 3.1"	1695	15'-6"	2"	12 MIN.	CALCULATED EVAPORATION LBS / HR.	BOILER PRESSURE 180 LBS.
2	BOILER FLUES - 28 SPACING - 2.8"	607	15'-6"	5 3/8"	10 MIN.	TUBES @ 9.75 LBS 16580 LBS.	TRACTIVE EFFORT 44800 LBS.
3	TOTAL TUBES & FLUES	2302				FLUES @ 11.59 LBS 7035 LBS.	FACTOR OF ADHESION 4.10
4	FIRE BOX PROPER	21				FIRE BOX @ 55 LBS 885 LBS.	MAX. CURVATURE 19°
5	COMBUSTION CHAMBER					COMBUSTION CHAMBER	ENGINE TRUCK SWING 3 3/4"
6	SYPHONS - 2	60				2 SYPHONS 3300 LBS.	TRAILING TRUCK SWING
7	TOTAL FIRE BOX	221				TOTAL EVAPORATION 35770 LBS.	COAL CAPACITY 12 TONS
8	TOTAL EVAPORATING HEATING SURFACE	2323				ST. COMBUSTION (0.668 x 20.9) 38850 LBS.	WATER CAPACITY 8000 GALS
9	TOTAL SUPERHEATING HEATING SURFACE	492				BOILER FACTOR 92%	VALVE GEAR SEE TABLE
10	TUBE SHEETS FT 3/4" OR 1"					FIRE BOX H.S. TO GRATE AREA 4.17	MAX. CUTOFF - WAL. GEAR 87.3%
11	GRATE AREA - 530 SQ. FT.					TOTAL EVAP. H.S. TO FIRE BOX H.S. 11.4	MAX. CUTOFF - BAKER GEAR 84.4%
12	WEIGHT WATER 2 1/2 GAUGES					TOTAL EVAP. H.S. TO SUPHS. H.S. 3.1	THROTTLE CHAMBERS DOM. TYPE - IN CONN.
13						2 1/2" DIA. AIR SUPPLY	
14						2 1/2" DIA. AIR SUPPLY	
15						FRAME CTRS. 43" FRAME WIDTH 5"	