



B45

ALL WEIGHTS FOR ENGINE AND TENDER IN WORKING ORDER

AB

2/11/02

BOILER				DESIGN DATA				GENERAL DATA	
HEATING SURFACE	LENGTH	DIAM.	GAUGE OR THICKNESS	DESIGN DATA		GENERAL DATA			
1 BOILER TUBES 201- SPACING 1 1/8"	2415	20'-6"	2 1/4" #12 MIN.	CALCULATED EVAPORATION LBS. PER HR.		BOILER PRESSURE		250 LBS.	
2 BOILER FLUES 40- SPACING 8 1/2"	1175	20'-6"	5 1/2" #10 MIN.	TUBES @ 8.52 LBS.	10573 LBS.	TRACTIVE EFFORT		67200 LBS.	
3 TOTAL TUBES & FLUES	3590			FLUES @ 9.86 LBS.	11586 LBS.	FACTOR OF ADHESION		3.64	
4 FIREBOX PROPER	223			FIRE BOX @ 55 LBS.	12375 LBS.	MAX. CURVATURE		19°	
5 COMBUSTION CHAMBER	101			COMB. CHAMBER @ 53 LBS.	5355 LBS.	ENG. TRUCK SWING		4 1/4"	
6 SYPHONS 2- FIRE BOX - COMB. CHAMBER	95			3 SYPHONS @ 53 LBS.	3225 LBS.	TRAILING TRUCK SWING		6 1/2"	
7 TOTAL FIRE BOX	421			TOTAL EVAPORATION	53315 LBS.	COAL CAPACITY		15 TONS	
8 TOTAL EVAPORATING HEATING SURFACE	4011			STEAM CONSUMPTION (3277x20.8)	68160 LBS.	WATER CAPACITY		16000 GALS.	
9 TOTAL SUPERHEATING HEATING SURFACE	1009			BOILER FACTOR	81%	SUPERHEATER THRU TTLE		CHAMBERS	
10 TUBE SHEETS - FRONT 5/8" - BACK 7/16"				FIRE BOX HEATING SURFACE TO GRATE AREA	6.0	VALVE GEAR		BAKER	
11 GRATE AREA		70.250 S.F.T.		TOTAL EVAPORATING H.S. TO FIRE BOX H.S.	9.3	MAX. CUT OFF		82.9%	
12 WEIGHT OF WATER AT 2 1/2 GAUGES				TOTAL EVAPORATING H.S. TO SUPERHEAT. H.S.	3.97	STOKER		"LT-" CONVERSION	
				BASE AREA 7400 TUBES & FLUES	116%	HEATER		ELES CO	
				FRAME CENTERS 4 1/2" - WIDTH OF FRAME 6"					