

DIMENSIONS.	
LENGTH OF FIRE BARS	
AREA OF FIRE GRATE	
DIAM. OF TUBES OUTSIDE	3 1/4
LENGTH OF TUBES	OVER PLATES 6'-4"
NO. OF TUBES	174
SURFACE OF TUBES	277 sq
TOTAL HEATING SURFACE	1135 sq
WORKING PRESSURE	180 lb

## DIMENSIONS.

LENGTH OF FIRE BARS	
AREA OF FIRE GRATE	
DIAM. OF TUBES OUTSIDE	3 1/2
LENGTH OF TUBES	6'-4"
NO. OF TUBES	174
SURFACE OF TUBES	947 sq
TOTAL HEATING SURFACE	1135 sq
WORKING PRESSURE	180 lb

## PARTICULARS OF RIVETING

SHELL LONGITUDINAL JOINT TO BE TRIPLE RIVETED DOUBLE BUTT JOINT HOLE DRILLED  $1\frac{1}{2}$  DIA: 7 PITCH  
CIRCUMFERENTIAL SEAMS TO BE DOUBLE RIVETED LAP JOINTS  
HOLE DRILLED  $1\frac{1}{2}$  DIA: 3/4 PITCH

FURNACES FRONT & BACK ENDS TO BE SINGLE RIVETED

COMP<sup>d</sup> CHAMBERS BOTTOM & SIDES TO LEVEL OF FURNACE TOPS  
TO BE DOUBLE RIVETED REST TO BE SINGLE RIVETED

END PLATES CROSS SEAMS TO BE DOUBLE RIVETED

MANHOLE IN SHELL 16 X 12  
LINED INSIDE WITH 1/2" PLATE 7' BROAD

GIRDER STAYS. DOUBLE IRON  $\frac{1}{8}$ " THICK  
8 $\frac{3}{4}$ " DEEP 8 PITCH FITTED WITH 3 SUPPORTING BOLTS  
1 $\frac{3}{4}$ " DIA<sup>2</sup> 2-07 EFF<sup>16</sup> AREA. 8 $\frac{1}{2}$ " PITCH

LINING PLATE TO BE FITTED  
BETWEEN TUBE NESTS

COMB<sup>N</sup> CHAMBERS  
TO BE FITTED WITH STAYS  
13<sup>1</sup>/<sub>4</sub>" DIA<sup>R</sup> - 15" EFF<sup>VE</sup> DIA<sup>R</sup>  
2.07 EFF<sup>VE</sup> AREA

ALL SCREW STAYS  
TO BE SCREWED INTO BOTH  
PLATES & FITTED WITH NUTS  
AT BOTH ENDS

PERCENT OF JOINT	
BUTT STRAP 1/2 THICK	PLATE 85.2 %
	RIVETS 87.4 %

PERCENT OF JOINT

PLATE 85.2 %

RIVETS 87.4 %

12-6 OUT DIA<sup>R</sup> X 10-0 LONG  
180 LBS W.P.

BOILER № 773

CHARLES D HOLMES & CO  
ENGINEERS & BOILER MAKERS  
HULL 13-12-07

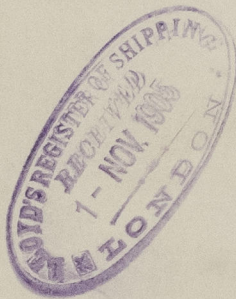


Boules No 443.



Se. H. "Empire"  
Hull Report No. 17385

No 1425  
Lloyds Test  
360 lbs  
J.B.  
14. 11. 05



MAINTAIN



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Foundation