

" " " LONG<sup>L</sup> STEEL STAYS 28-32 TONS.

TEST " 200 " "

ALL PLATES OF STEEL  
" RIVETS " "  
" TUBES " IRON

POSITION OF MANHOLE  
ARRANGED LATER BY SKETCH

WHERE NECESSARY, WASHERS  
TO BE FITTED UNDER NUTS IN CC  
SCREW STAYS THRO'SHELL  
TO BE CAULKED & RIVETED.

SWAN, HUNTER, & WICHAM RICHARDSON, L<sup>TD</sup>  
ENGINE WORKS DEPARTMENT.  
NEPTUNE WORKS,  
WALKER,  
NEWCASTLE-ON-TYNE  
No 4792. DATE 16.4.10.

LENGTH OF FIREBARS 5.6"

SURVEYS:- LLOYDS, BOARD OF TRADE & GERMAN LAW (TO POINT OF TEST)

RIVETS 79 %

LONG: JOINT  $1\frac{1}{32}$  HOLES,  $3\frac{7}{8}$  PITCH

HYDRAULIC MACHINE RIVETED

STAYS SCREWED INTO FRONT END PLATES & TO BE WELL CAULKED

CEMENT JOINT BETWEEN WASHER & PLATE.

CLEARANCE SPACE FILLED IN WITH  
STEEL LINER, WELL STEMMED IN.

LONG STEEL STAYS 2 $\frac{1}{4}$ " DIA, 6 THREADS (NETT AREA 3.26")

IRON SCREW STAYS 9 THREADS.  
1 1/2" DIA (NETT AREA 1.188 sq")

OVER-ALL LENGTH OF TUBES  $6.8\frac{5}{8}$

6' 5  $\frac{15}{16}$ " BETWEEN TUBE PLATES

118 PLAIN TUBES 3" OUT DIA x 10.1 W.G. SWELLED  $\frac{1}{16}$  AT FRONT

40 STAY " " " " x  $\frac{5}{16}$  THICK "

158 SCREWED WITH CONTINUOUS THREAD 11 PER 1", (NETT AREA 2.1")

CENTRE OF FURNACE  
5.6 BARS-----

DOUBLE BUTTS  $5 \times \frac{7}{16}$  SINGLE RIV.  $\frac{3}{4}$  RIVETS,  $2\frac{1}{4}$  PITCH

WIDTH OF PLATE 8:11½

LENGTH 9' 6"

I. OFF

# DONKEY BOILER

Nº 838

SCALE 1" TO ONE FOOT.

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Foundation



838  
Darby Boiler

Swan Hunter and Wigham  
Richardson & Co  
Ship No 838

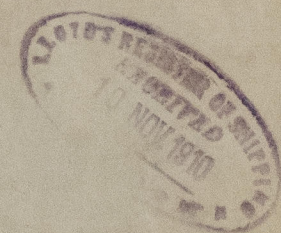
Darby Boiler

RECEIVED

S.S. "HARMATTAN"

NEWCASTLE ON TYNE.

REPORT No. 59555



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