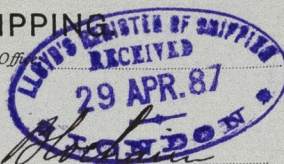


No. 4964

(Received in London Office)



TESTS OF BOILER STEEL.

Tests of 110 Steel plates manufactured by *The Steel Co. of Scotland* of *Glasgow*
for Boiler No. 25475 to be constructed by *W.B. Thompson* of *Dundee*
for the Steamer No. 81 building by the same firm

Date first visit *10th March* last visit *14th April* No. of visits

The specified in the accompanying copy of Advice Notes were rolled from
charges. The tensile test has been applied to *27* samples as set forth below,
and the temper and bending tests *Satisfactory*

When a second test is applied, the result should be recorded immediately below the record of the original test. The number of plates or bars included in a rejection must be clearly stated.

| No. | Purpose. | Charge Mark. | No. of plates or bars in same charge | Mark on plate and test piece. | Dimensions. | | | Ultimate Stress. | | Exten. in 8 ins. | Remarks. |
|-----|----------------------|--------------|--------------------------------------|-------------------------------|-------------|--------|-------|------------------|-----------|------------------|----------|
| | | | | | Thickn. | Brdth. | Area. | Total. | Sq. Inch. | | |
| | | | | | Ins. | Ins. | Ins. | Tons. | Tons. | % | |
| | Front Top | L. 68 | | 8962 | .84 | 1.23 | 1.033 | 31.0 | 30 | 25.5 | |
| | Back Btm. | " " | | 8963 | .82 | 1.24 | 1.017 | 29.7 | 29.2 | 26.5 | |
| | Back Top | A. 72 | | 8988 | .84 | 1.24 | 1.042 | 30.9 | 29.6 | 24 | |
| | Firebox sides & btm. | A. 71 | | 2861 | .585 | 1.11 | .649 | 18.9 | 29.1 | 27.5 | |
| | Back Tube | B. 76 | | 4007 | .79 | 1.11 | .877 | 25.4 | 28.9 | 24.5 | |
| | Shell | J. 64 | | 9121 | 1.23 | 1.15 | 1.415 | 41.5 | 29.3 | 28 | |
| | Back Centre | O. 75 | | 9123 | .835 | 1.14 | .932 | 29.05 | 30.5 | 20.5 | Rejected |
| | Shell Strap | K. 78 | | 9242 | 1.25 | 1.14 | 1.425 | 40.9 | 28.7 | 25 | |
| | Back Tube | D. 87 | | 9262 | .825 | 1.13 | .932 | 26.8 | 28.7 | 25 | |
| | C. B. Tube plate | L. 54 | | 1181 | .8 | 1.27 | 1.016 | 27.85 | 27.4 | 24.5 | |
| | Girders | B. 68 | | 1265 | .75 | 1.27 | .953 | 26.35 | 27.6 | 25 | |
| | " | A. 60 | | 1333 | .75 | 1.27 | .953 | 26.1 | 27.3 | 22 | |
| | Shell Strap | Fil | | 8849 | 1.26 | 1.34 | 1.688 | 47.75 | 28.3 | 26 | |
| | Firebox back | K. 61 | | 2327 | .525 | 1.14 | .599 | 15.6 | 26 | 25 | |
| | Firebox sides & btm. | L. 67 | | 2680 | .53 | 1.11 | .588 | 16.55 | 28.1 | 25 | |
| | " top | " " | | 2684 | .58 | 1.11 | .644 | 17.9 | 27.8 | 25 | |
| | " sides & bottom | " " | | 2697 | .58 | 1.11 | .644 | 18.2 | 28.2 | 27 | |
| | " top | E. 60 | | 2710 | .53 | 1.12 | .616 | 17.0 | 27.6 | 29 | |
| | " back | J. 56 | | 2796 | .56 | 1.28 | .717 | 21.5 | 30 | 24 | |
| | Shell | H. 61 | | 8883 | 1.25 | 1.29 | 1.612 | 46.5 | 28.8 | 28.5 | |
| | Front Tube plate | C. 74 | | 8908 | .895 | 1.11 | .993 | 26.15 | 26.3 | 26 | |
| | Firebox Back | F. 72 | | 2326 | .524 | 1.13 | .61 | 16.0 | 26.2 | 23.5 | |
| | Shell | H. 61 | | 8883 | 1.25 | 1.29 | 1.612 | 46.5 | 28.8 | 28.5 | |
| | " | H. 59 | | 8834 | 1.23 | 1.14 | 1.402 | 39.5 | 28.1 | 22 | |
| | " | J. 64 | | 9121 | 1.23 | 1.15 | 1.415 | 41.5 | 29.3 | 28 | |
| | " | F. 80 | | 9051 | 1.24 | 1.12 | 1.389 | 40.9 | 29.5 | 22 | |
| | " | H. 99 | | 8823 | 1.27 | 1.14 | 1.448 | 40.75 | 28.1 | 30 | Annealed |

Fee £ : :

Expenses £ : :

£ : :

To be paid by

Surveyor, Lloyd's Register,

W. B. Thompson's
No. 234 & 5 Br.



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