

No. 5330.

TESTS OF BOILER STEEL.

Tests of 12 Steel plates manufactured by The Steel Co. of Scotland of Glasgow for Boiler No. 844 to be constructed by Messrs. J. Richardson & Co. of Newcastle for the S.S. "Earth Castle"

Date first visit 29/7 last visit 31/8/87 No. of visits 4

The specified in the accompanying copy of Advice Notes were rolled from charges. The tensile test has been applied to 12 samples as set forth below, and the temper and bending tests to a shearing of each plate, with Satisfactory results.

| 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. | % | |
| 1 | Shell | A.224 | | 1525 | .49 | 1.31 | .642 | 18.5 | 28.8 | 23.5 | |
| 2 | " | " | | 1528 | .51 | 1.24 | .632 | 18.6 | 29.4 | 24.5 | Cross piece |
| 3 | Firebox Side & Top | K.220 | | 2162 | .42 | 1.12 | .47 | 13.7 | 29.1 | 27 | |
| 4 | " Back | J.199 | | 2268 | .42 | 1.12 | .47 | 13.2 | 28.0 | 27.5 | |
| 5 | Shell | G.214 | | 2339 | .495 | 1.21 | .599 | 17.45 | 29.1 | 28 | |
| 6 | " | E.189 | | 2357 | .495 | 1.19 | .589 | 17.05 | 28.9 | 27.5 | |
| 7 | " | L.137 | | 2935 | .5 | 1.12 | .56 | 14.4 | 25.7 | 24 | Rejected |
| 8 | Tube plate | J.240 | | 3486 | .68 | 1.17 | .796 | 21.75 | 27.3 | 23 | |
| 9 | Front Top | L.186 | | 3796 | " | " | " | 21.8 | 27.3 | 22 | |
| 10 | Manhole | A.242 | | 3860 | .495 | " | .579 | 16.0 | 27.6 | 24 | |
| 11 | End plate | L.187 | | 3906 | .5 | 1.18 | .59 | 16.25 | 27.5 | 26.5 | |
| 12 | Furnace | A.245 | | 3961 | .465 | 1.19 | .553 | 15.3 | 27.6 | 28 | |

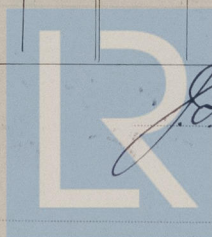
J.H.F. 6.9.87

Fee £ : :

Expenses £ : :

£ : :

To be paid by



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J.H.F. Roberts
Surveyor, Lloyd's Register.

Glasgow
31/8/87

Thos. J. Richardson Esq.
Sty. B. No. 844



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