

No. 345.

## LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

(Received in London Office, RECEIVED 2nd JUNE 82.)

## TESTS OF BOILER STEEL.

Tests of 82 Steel plates manufactured by Mr. David Colville of Motherwell for Boiler No. 144 to be constructed by Messrs. W. Richardson of Newcastle upon Tyne for Ship No. 144 building by Messrs. W. Richardson & Co.

Date first visit 28 Feb 1882 last visit 5 May 1882 No. of Visits 5

The Steel plates specified in the accompanying copy of Advice Notes were rolled from 41 charges. The tensile test has been applied to 10 samples as set forth below, and the temper and bending tests to samples representative of every plate advised all of which proved 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.     |                  |          |
| 1   | Shell              | A224        | 2                                    | 1864                          | 1.028       | 1.368  | 1.406 | 41.81            | 29.7      | 25               |          |
| 2   | Furnace crown      | C299        | 2                                    | 825                           | .575        | 1.65   | .981  | 26.45            | 26.9      | 25.6             |          |
| 3   | Fire box side      | C296        | 5                                    | 844                           | .522        | 1.55   | .809  | 21.13            | 26.1      | 26.2             |          |
| 4   | Shell              | B412        | 3                                    | 1291                          | 1.05        | 1.66   | 1.743 | 48.65            | 27.9      | 24.1             |          |
| 5   | do                 | B409        | 4                                    | 1294                          | 1.03        | 1.428  | 1.47  | 39.6             | 26.9      | 29.2             |          |
| 6   | Furnace butt strap | C284        | 25                                   | 1270                          | .332        | 2.06   | .684  | 18.57            | 27.1      | 29.7             |          |
| 7   | Front tube plate   | B454        | 7                                    | 1661                          | .42         | 1.244  | .895  | 25.25            | 28.2      | 29.3             |          |
| 8   | Fire box back      | C343        | 8                                    | 1942                          | .503        | 1.312  | .66   | 18               | 27.2      | 24.6             |          |
| 9   | Shell              | A626        | 6                                    | 418                           | 1.09        | 1.305  | 1.422 | 40.42            | 28.4      | 30               |          |
| 10  | Front tube plate   | C32         | 1                                    | 349                           | .427        | 1.305  | .948  | 25.84            | 27.2      | 24.1             |          |

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by Mr. D. Colville

Surveyors Lloyd's Register,

Glasgow 1/6/82



Leslie 239  
D. R. Sec 144

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S.S. "Quollerton"  
Hwc. Report No. 16740



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