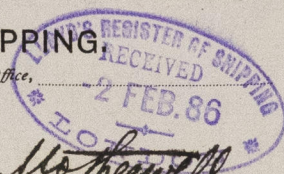


No. 3291.

(Received in London Office,



# TESTS OF BOILER STEEL.

Tests of 57 Steel Plates manufactured by Messrs D. Colville & Son of Motherwell  
for Boiler No. 647 to be constructed by Messrs Newall & Co of Bristol  
for Her S.S. No 647.

Date first visit Jan 15<sup>th</sup> 1886 last visit \_\_\_\_\_ No. of visits \_\_\_\_\_

The \_\_\_\_\_ specified in the accompanying copy of Advice Notes were rolled from \_\_\_\_\_ charges. The tensile test has been applied to 6 samples as set forth below, and the temper and bending tests 5 a shearing from each plate.

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   | 7-1/2 x 2 1/2 x 9/16      | 1087         |                                      | 1087                          | .55         | 1.48   | .814  | 24.15            | 29.6      | 23.5             |          |
| 2   | 14-3 7/16 x 5 7/8 x 3/8   | 2736         |                                      | 1859                          | .62         | 1.09   | .675  | 20.25            | 30.8      | 25.5             |          |
| 3   | 4-8 7/8 R x 7 7/8 x 3/4   | 1660         |                                      | 875                           | .73         | 1.91   | 1.394 | 41.05            | 29.4      | 21.5             |          |
| 4   | 4-9 1/2 R x 5 9/16 x 1/2  | C520         |                                      | 941                           | .60         | 1.32   | .897  | 25.00            | 27.8      | 22.0             |          |
| 5   | 4-0 x 5 D S x 1/2         | 2125         |                                      | 833                           | .68         | 1.48   | 1.006 | 27.35            | 27.1      | 27.0             |          |
| 6   | 4-8 7/8 R x 4 0 3/8 x 1/2 | D321         |                                      | 857                           | .78         | 1.91   | 1.489 | 44.12            | 29.6      | 26.0             |          |

*Mo*  
3/2/86

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by \_\_\_\_\_



*W Moore*

Surveyor, Lloyd's Register,

*Glasgow*