

No. 506

(Received in London of) RECEIVED 4th OCT. 82.

TESTS OF BOILER STEEL.

Tests of 47 Steel Plate manufactured by Messrs J. & W. Beardmore of Parkhead Forge for Boiler No. 146 to be constructed by Messrs W. Richardson & Co of Newcastle-on-Tyne for S.S. No. 2 Messrs J. Priestman & Co, Sunderland.

Date first visit April 3rd 1882 last visit July 3rd 1882 No. of Visits 4

The Plate specified in the accompanying copy of Advice Notes were rolled from 38 charges. The tensile test has been applied to 7 samples as set forth below, and the temper and bending tests to sample representing each plate, all proving 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 | Furnace Top | K346 | 2 | 526 | .56 | 1.25 | .7 | 20.18 | 28.8 | 20.5 | |
| 2 | Top of Back | A28 | 1 | 529 | .75 | 1.22 | .915 | 25.79 | 28.1 | 31. | |
| 3 | Firebox back | F397 | 1 | 990 | .5 | 1.32 | .66 | 19.43 | 29.4 | 24. | |
| 4 | Bottom of back | B291 | 1 | 991 | .63 | 1.21 | .762 | 20.1 | 26.3 | 25. | |
| 5 | Furnace Top | B85 | 4 | 614 | .58 | 1.26 | .73 | 20.45 | 28. | 24. | |
| 6 | " Front | K72 | 1 | 936 | .57 | 1.17 | .666 | 19.87 | 29.8 | 22.5 | |
| 7 | " Top | D184 | 1 | 979 | .56 | 1.18 | .66 | 19.31 | 29.2 | 23. | |

M 4/10/82

Fee £ : :

Expenses £ : :

£ : :

To be paid by

Messrs J. & W. Beardmore

Surveyor, Lloyd's Register,

Edinburgh

Lloyd's Register
Foundation