

Sunderland report No 14105. S.S. "Federation".

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING

(Received in London Office)

No. 3441.

TESTS OF BOILER STEEL



540953-0065

Tests of 11 Steel Bars manufactured by Messrs D. Colville & Sons of Motherwell for Boiler No. 346/D to be constructed by Messrs The North Eastern Marine Coy of Sunderland for

Date first visit July 30th 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 2 samples as set forth below, and the temper and bending tests to a piece from each bar.

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 | Round Bars 3/4 Dia D518 | | | 28 | 1.26 | Dia 1.247 | 37.12 | 29.7 | 26.5 | | |
| 2 | " " " " " | | | 29 | 1.26 | " 1.247 | 34.94 | 28.0 | 28.0 | | |

9/8/86

Fee £ : :
 Expenses £ : :
 £ : :

To be paid by



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 H. M. Doule
 Surveyor, Lloyd's Register,
 Glasgow
 16.8.86