



TESTS OF BOILER STEEL.

of 49 Steel plates manufactured by David Colville & Sons of Motherwell
for Boiler No. 156 to be constructed by Wm Donford & Sons of Sunderland.
for S.F. no 156 building by same firm.

Date first visit 10.3.84. last visit 2.4.84 No. of Visits 3.

The steel plates specified in the accompanying copy of Advice Notes were rolled from
charges. The tensile test has been applied to 8 samples as set forth below,
and the temper and bending tests to a sample taken from each of
the plates advised, all of which proved satisfactory.

| No. | Purpose. Dimensions | 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. | 6.2 x 22 x 1/2 | J53 | - | 2393 | .482 | 1.462 | .704 | 19.5 | 27.6 | 26.5 | |
| 2. | 8-1 x 40 1/2 x 1/2 | L53 | - | 2457 | .49 | 1.18 | .578 | 15.87 | 27.4 | 24. | |
| 3. | 5.2 x 48 3/4 x 7/16 | L74 | - | 2567 | .45 | 1.31 | .589 | 16.85 | 28.6 | 25. | |
| 4. | 7.4 x 72 x 1/2 | C981 | - | 2521 | .492 | 1.9 | .934 | 25.4 | 27.1 | 30.5 | |
| 5. | 12.7 1/2 x 71 x 1/16 | C792 | - | 3254 | .7 | 1.397 | .977 | 29.18 | 29.8 | 27. | |
| 6. | 6.3 x 5 1/2 x 3/8 | M89 | - | 5709 | .365 | 1.47 | .536 | 14.78 | 27.5 | 24. | |
| 7. | 7.3 x 65 1/2 x 1/2 | K91 | - | 6161 | .525 | 1.578 | .828 | 24.05 | 29.0 | 22. | |
| 8. | 12.7 1/2 x 71 x 1/16 | C989 | - | 6262 | .72 | 1.64 | 1.18 | 34.94 | 29.6 | 27. | |

M 29/4/84

Fee £ : :

Expenses £ : :

£ : :

To be paid by D. Colville & Sons. Wm Donford.

Surveyor, Lloyd's Register, 28/4/84.

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N Dorset House 156



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Foundation