

No. 2029.

(Received in London Office, 23/9/84)

TESTS OF BOILER STEEL.

Tests of 201 Steel plates manufactured by David Colville & Sons of Motherwell.
for Boiler Nos 394-5 to be constructed by R Napier & Sons of Glasgow.
for S.S.'s nos 394-5 building by the same firm.

Date first visit 29. 8. 84. last visit 11. 9. 84 No. of Visits 5.

The steel plates specified in the accompanying copy of Advice Notes were rolled from charges. The tensile test has been applied to 24 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.

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. | 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. | 21.7 x 62 x 16 | 4761 | - | 4692 | .66 | 1.828 | 1.206 | 36.39 | 30.1 | 21. | |
| 2. | " " " | " | - | 4690 | .668 | 1.524 | 1.028 | 30.83 | 29.9 | 27.5 | |
| 3. | " " " | 4404 | - | 7722 | .66 | 1.86 | 1.227 | 36.47 | 29.7 | 27.5 | |
| 4. | " " " | " | - | 7724 | .66 | 1.58 | .764 | 22.22 | 29. | 26. | |
| 5. | 13.2 1/2 x 44 x 7/16 | 13193 | - | 7728 | .46 | 1.59 | .731 | 21.37 | 29.2 | 20. | |
| 6. | 21.4 3/4 x 62 x 16 | 4762 | - | 5389 | .72 | 1.825 | 1.314 | 39.7 | 30.2 | 26.5 | |
| 7. | 21.7 x " " | 4406 | - | 5415 | .68 | 1.58 | 1.074 | 31.8 | 29.6 | 27. | |
| 8. | 13.2 1/2 x 44 x 7/16 | C172 | - | 7636 | .445 | 1.6 | .712 | 21.2 | 29.7 | 26. | |
| 9. | 21.7 x 62 x 16 | 4761 | - | 5391 | .689 | 1.53 | 1.067 | 31.04 | 29. | 27. | |
| 10. | 7.3 2 1/2 x 73 x 7/8 | L231 | - | 4674 | .622 | 1.823 | 1.133 | 32.37 | 28.3 | 24. | |
| 11. | 13.2 1/2 x 44 x 7/16 | 4405 | - | 7634 | .453 | 1.592 | .724 | 22.01 | 30.4 | 21.5 | |
| 12. | 14.5 x 64 1/2 x 3/4 | E690 | - | 7706 | .73 | 1.58 | 1.153 | 34.22 | 29.6 | 23.5 | |
| 13. | 21.4 3/4 x 62 x 16 | 4767 | - | 414 | .7 | 1.51 | 1.057 | 31.77 | 30. | 28. | |
| 14. | 21.7 x " " " | " | - | 412 | .7 | 1.785 | 1.249 | 37.57 | 30. | 28.5 | |
| 15. | 7.2 2 1/2 x 62 1/2 x 7/8 | D980 | - | 8046 | .882 | 1.18 | 1.04 | 30.58 | 29.4 | 28. | |
| 16. | 8.0 x 78 x 1/2 | K111 | - | 1078 | .51 | 1.415 | .721 | 21.38 | 29.6 | 25. | |
| 17. | 21.7 x 62 x 16 | 4404 | - | 5423 | .67 | 1.703 | 1.141 | 34.14 | 29.9 | 29.5 | |
| 18. | 21.4 3/4 " " | 4407 | - | 7842 | .68 | 1.577 | 1.072 | 34.3 | 31.9 | 26. | |
| 19. | 21.7 " " | 7144 | - | 7952 | .69 | 1.63 | 1.124 | 34.11 | 30.3 | 24.5 | |
| 20. | 21.4 3/4 " " | C177 | - | 7948 | .7 | 1.708 | 1.195 | 35.44 | 29.6 | 30. | |
| 21. | 21.7 " " | 7144 | - | 7950 | .7 | 1.3 | .91 | 26.55 | 29.1 | 27. | |
| 22. | 21.4 3/4 " " | 4407 | - | 7812 | .672 | 1.703 | 1.144 | 33.86 | 29.5 | 25. | |
| 23. | 7.2 2 1/2 x 62 1/2 x 7/8 | L234 | - | 8020 | .71 | 1.7 | 1.207 | 37.08 | 30.7 | 24. | |
| 24. | 7.9 x 69 x 9/16 | H469 | - | 7640 | .57 | 1.372 | .782 | 22.14 | 28.3 | 22. | |

Fee £ : :

Expenses £ : :

£ : :

To be paid by D. Colville & Sons.

C. Burney.

Surveyor, Lloyd's Register,

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23/9/84