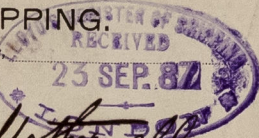


No. 5490

(Received at London Office)



TESTS OF BOILER STEEL.

Tests of 57 Steel Plates manufactured by Messrs D. Colville & Sons of Motherwell
for Boiler No. 80 to be constructed by Messrs Dunsmuir & Jackson of Glasgow
for Messrs The Whitehaven Sh. Co. Ld. No. 68

Date first visit Sept. 13th 1887 last visit Sept. 21st 1887. No. of visits

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

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	6.10 1/2 x 67 1/2 x 13/16	B120		2639	.81	1.26	1.020	29.40	28.8	24.0	
2	5.9 x 8 1/2 x 9/16	B121		2487	.57	1.46	.832	25.12	30.1	22.5	
3	13.10 x 57 x 9/8	D827		2637	.62	1.50	.930	29.17	31.3	22.5	Rejected 1 plate
4	6.10 1/2 x 77 1/2 x 3/4	A318		3564	.73	1.49	1.087	32.06	29.4	25.0	
5	7.6 x 69 x 9/16	P182		2767	.57	1.49	.849	24.74	29.1	19.0	
					.56	1.65	.924	26.80	29.0	20.0	Duplicate test.
6	3.7 1/2 x 16 1/4 x 15/16	A317		2748	.89	1.59	1.415	40.17	28.3	21.5	
7	6.10 1/2 x 55 1/2 x 9/8	M257		3433	.63	1.50	.945	26.82	28.3	25.5	
8	13.0 3/4 x 43 3/4 x 1 1/2	C983		4102	1.13	1.13	1.276	35.80	28.0	25.0	
9	13.3 x 43 3/4 x 1 3/8	B125		3557	1.09	.93	1.013	31.39	30.9	19.0	
					1.09	.89	.970	30.86	31.8	15.0	Rejected 1 plate
10	" x " x " x "	B125		3555	1.10	1.42	1.562	46.72	29.9	21.5	
11	" x " x " x "	"		3561	1.12	1.35	1.512	45.00	29.8	21.0	
12	4.3 x 29.2 x 20 x 9/16	N148		4764	.57	1.39	.792	23.70	29.9	20.0	

D.P.
24/9/87

Fee £ : :
Expenses £ : :
£ : :

To be paid by



H. M. Dove

Surveyor, Lloyd's Register.

Glasgow
21.9.87