

13 AUG. 83

LONDON

TESTS OF BOILER STEEL.

of 76 Steel plates manufactured by *M^r D. Colville* of *Motherwell*.
 Boiler No. *195*. to be constructed by *the Walloway & Co.* of
S.S. No. 468 building by *Sir W. G. Armstrong, Mitchell & Co.*
 Date first visit *15th June/83* last visit *8th August/83* No. of Visits *3*

The steel plates specified in the accompanying copy of Advice Notes were rolled from
26 charges. The tensile test has been applied to *9* samples as set forth below,
 and the temper and bending tests to a shearing taken from each of
 the plates advised, all of which proved satisfactory.

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.		
Built straps	E345	1	1335	.74	1.8	1.332	37.43	28.1	26.5	
Front tube plate	B863	2	952	.753	1.635	1.231	34.54	28.9	28.0	
Comb. chamb. sides	E91.	2	1906	.48	1.55	.744	21.30	28.7	20.0	
BK tube plate	B831	1	170	.76	1.88	1.428	35.76	25.0	35.0	Rejected 1 plate.
Furnace btm.	F474	2	338	.565	1.62	.915	25.95	28.3	25.0	
" top.	E446	17.	412	.57	1.62	.923	24.69	26.7	27.0	
" btm.	9101	2	339	.554	1.62	.897	22.69	25.2	30.5	Rejected 2 plates.
" top.	E445	1	459.	.57	1.57	.86	23.42	27.3	23.0	
Front btm.	F476	3	493	.695	2.032	1.412	40.98	29.0	22.5	
Comb. chamb. side.	E424	16	277	.484	1.10	.532	15.33	28.8	24.5	

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To be paid by *M^r D. Colville*

Surveyor, Lloyd's Register,

Glasgow 7/8/83

Lloyd's Register
Foundation

Minute.

signed