



No. 403

TESTS OF BOILER STEEL.

Tests of Steel Plates manufactured by Heardale Iron Works Ltd of Spennymoor
for Boiler No. 603-4 to be constructed by J. Dickinson of Sunduland
for R. Thompson & Sons Ltd 144 Vessel

Date first visit 27.5.87 last visit _____ No. of visits 1

The Plates etc specified in the accompanying copy of Advice Notes were rolled from
12 charges. The tensile test has been applied to 22 samples as set forth below,
and the temper and bending tests were 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.	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.		
	End		3478	E	1.19	1.53	1.820	51.78	28.4	22	
	Furnace front		3465	B	.75	"	1.147	32.58	28.4	30	
	Comer br sides		3347	H	.46	1.54	.708	19.41	27.4	30	
	" " "		"		.48	"	.739	20.08	27.1	30	
	" " "		3349	F	.48	"	.739	20.53	27.7	30	
	" " tops		3326		.61	"	.939	27.00	28.7	27	
	Back Tube		3469		.85	1.53	1.300	37.50	28.8	29	
	Shell		3483	B	1.22	1.52	1.854	53.12	28.6	23	
	"		6	"	1.20	"	1.824	51.78	28.3	30	
	2 3/4" R ² Stays		3238		1.75	dia	2.140	67.84	28.2	26	
	" " "		28	"	1.76	"	2.43	68.74	28.2	28	
	" " "		20	"	1.77	"	2.46	69.18	28.1	29	
	" " "		19	"	1.78	"	2.40	66.96	27.9	26	
	" " "		21	"	1.71	"	2.29	65.16	28.4	27	
	" " "		27	"	1.79	"	2.51	69.64	27.7	26	
	2" " "		1	"	1.76	"	2.43	68.52	28.1	31	
	" " "		57	3327	1.74	"	2.37	66.96	28.2	26	
	1 1/4" " "		10	3416	1.22	"	1.16	32.58	28.0	27	
	" " "		14	"	1.22	"	1.16	31.69	27.3	28	
	1 1/2" " "		14	2019	1.47	"	1.69	48.66	28.7	28	
	" " "		7	"	1.48	"	1.72	49.10	28.5	32	
	2 3/4" " "		27	3452	1.78	"	2.48	69.18	27.9	25	

D.P.
2/6/87

Fee £ : :

Expenses £ : :

£ : :

To be paid by

W. R. Austin

Surveyor, Lloyd's Register.

West Hartlepool