

(Received at London Office)



Tests of Steel Plates manufactured by Cardale Iron Coal Co of Spokane
for Boiler No. 957 to be constructed by Blair & Co limited of Stockton.
for C. S. Swan & Hunter N^o 105 vessel.

Date first visit 6.4.87 last visit 19.4.87 No. of visits 3

The Plates specified in the accompanying copy of Advice Notes were rolled from 16 charges. The tensile test has been applied to 24 samples as set forth below, and the temper and bending tests were satisfactory.

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.			
	Bombing shell				30947	.57	1.55	.883	25.44	28.8	19	
	"				3094	"	"	.883	25.89	29.3	24	
	"				3093	.56	"	.868	24.44	28.5	28	
	"				1800	.57	"	.883	25.00	28.3	30	
	Butt Straps.				3109	.85	1.57	1.334	37.95	28.4	28	
	Guiders				1698A	.86	1.55	1.333	38.39	28.8	28	
	"				1721A	.85	1.56	1.326	38.39	28.9	29	
	Ends.				3122E	1.05	1.58	1.659	45.08	27.1	30	
	"				3122	1.00	"	1.58	44.03	27.8	29	
	Shell.				3102	1.05	1.55	1.627	46.20	28.3	28	
	"				"	"	"	1.627	45.32	27.8	27	
	"				3126	1.06	1.58	1.674	48.20	28.7	20	
	"				"	1.07	1.55	1.658	50.88	30.7	24	
	"				"	"	"	1.658	48.66	29.3	23	Reacts.
	"				"	"	"	1.658	48.90	29.4	26	
	"				31126	1.08	1.58	1.706	47.32	27.7	28	
	"				32066	1.08	1.55	1.674	45.52	27.1	27	
	End.				31126	.95	"	1.472	42.81	29.0	28	
	"				31166	1.02	"	1.581	46.86	29.6	24	
	"				31266	1.01	1.58	1.595	46.42	29.1	25	
	"				3140A	.97	1.56	1.573	44.64	29.5	24	
	Shell				3137B	1.08	1.55	1.674	48.00	28.6	26	
	Butt Straps				3133D	.93	"	1.441	41.05	28.4	28	
	"				3140	.89	1.56	1.388	41.49	29.8	22	

15.9.

23/4/87

Fee £ : :

Expenses £ : :

£ : :

To be paid by

Surveyor, Lloyd's Register

West Haverpool.