

# Lloyd's Register of Shipping.

(Report on Machinery, No. 9866 Port Middlesbrough)

No. F11889 ENGINE FORGINGS OR CASTINGS.

I have to report that the Iron & Steel Forgings or Castings, as herein described, ~~for finished~~ manufactured by Messrs Blair & Co Ltd of Stockton for the Engines No. 1844 being constructed by Messrs Blair & Co Ltd of Stockton for the Ship No. 509, being built by Messrs Robson & Co of Stockton have been inspected by me as set forth below, and found to be, so far as can be seen, sound and good.

on Forgings or Castings.

Lloyd's

No. 7087

21.4.17 = crank shaft  
1.6.17 = Tail end shaft

W. Morrison

Middlesbrough  
20.8.17

	CRANK SHAFT.	STRAIGHT SHAFTING.		
		THRUST SHAFT.	INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material	Ingot Steel	/	/	Scrap iron
Made	Built			Forged
Dimensions	14 1/2" x 14 3/4" Pins			15 1/2" diam
Process on inspection	Machined & finished under special survey.			Machined & finished
Tests on Standard Test Pieces.				
Weld Test—	31.5, 30.8, 29.6, 31.4	/	/	✓
Welds per square inch	Per Newcastle			✓
Tension per cent	28-32-30-33			✓
Bending Test—	180°-180°-180°-180°	/	/	—
Angle before fracture				
When Inspected	Last visit 21.4.17	Last visit 1.6.17		

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS: Continuous strain

Fee (if any chargeable) £

To be paid at

\* If of iron, state whether scrap or puddled iron. If of steel, state whether made on the Open Hearth process.

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c.)

This boiler has been made of good material and workmanship and on com