

## Lloyd's Register of British &amp; Foreign Shipping.

(Report on Machinery, No. *1258*)Port *Middlesbrough*No. *27646*. ENGINE FORGINGS OR CASTINGS.

I have to report that the Iron ~~or~~ Steel Forgings ~~or~~ Castings, as herein described, <sup>9/10 finished</sup> manufactured by *Messrs Blair & Co Ltd* of *Stockton* for the Engines No. *1729* being constructed by *Messrs Blair & Co Ltd* of *Stockton* for the Ship No. *271*, being built by *Messrs Robt Thompson & Co* of *Sunderland* have been inspected by me as set forth below, and found to be, so far as can be seen, *sound and good*

Mark on Forgings or Castings.

Lloyd's

No. *6711*WM - *29.12.11* = crank shaft  
*31.1.12* = Propeller shaft*Wm Morrison**Middlesbrough*  
*13.2.12*

	CRANK SHAFT.	STRAIGHT SHAFTING.		
		THRUST SHAFT.	INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material* ...	<i>Ingot steel</i>			<i>Scrap iron</i>
How made ...	<i>Built</i>			<i>Forged</i>
Dimensions ...	<i>13" Journals; 13 1/2" pins</i>			<i>14 3/4" diam</i>
Progress on Inspection {	<i>Machined &amp; finished</i>			<i>Machined &amp; finished</i>
Tests on Standard Test Pieces.	<i>under special survey</i>			<i>under special survey</i>
Tensile Test—				
Tons per square inch ...	<i>31.2</i>			✓
Extension per cent ...	<i>30.</i>			✓
Cold Bending Test—				
Angle before fracture ...	<i>180°</i>			✓
Dates when Inspected	<i>Last visit 29.12.11</i>			<i>Last visit 31.1.12</i>

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

*Continuous liner tight on shaft*

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.