

Lloyd's Register of British & Foreign Shipping.

(Report on Machinery, No.

Port *Newcastle*)

No.

ENGINE FORGINGS OR CASTINGS.

I have to report that the ~~Iron or Steel Forgings or Castings~~, as herein described, manufactured by *The Darlington Forge Co. Ltd of Darlington.* for the Engines No. *2091* being constructed by *Messrs. John Readhead & Sons.* of *South Shields.* for the Ship No. *446*, being built by *Them.* of have been inspected by me as set forth below, and found to be, so far as can be seen, *Sound.*

Mark on Forgings or Castings.

Lloyd's

No. *1857 D*

FC

*Frank Cook**Darlington*

	CRANK SHAFT <i>Part-Spare</i>		STRAIGHT SHAFTING.	
	THRUST SHAFT.		INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material* ...	<i>Siemens steel, Siemens steel</i>			
How made ...	<i>Forged. Forged.</i>			
Dimensions ...	<i>1 3/4 dia. 1 3/4 dia.</i>			
Progress on Inspection }	<i>Forged & finished, Forged & finished.</i>			
Tests on Standard Test Pieces.				
<u>Tensile Test—</u>				
Tons per square inch ...	<i>30.4 to 32.0 tons 30.2 tons</i>			
Extension per cent in 2 in ...	<i>2.6% to 3.4.6% 3.1.6%</i>			
<u>Cold Bending Test—</u>				
Angle before fracture ...	<i>180° 180°</i>			
Dates when Inspected	<i>26/8/14 to 28/10/14 10/9/14 to 23/9/14.</i>			

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

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.

No. of test
No. of test
No. of test

REMARKS OF OTHER TESTS APPLIED TO CASTINGS

S.S. "TRECARNE"

NEWCASTLE-ON-TYNE

Report No. 57161

WS04-0189

ENGINE FORGINGS OF CASTINGS

Report of the Committee of the Institution of Mechanical Engineers

For the information of the Committee and the Committee only