

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

(Report on Machinery, No.

Port *Sunderland*)No. *14019* ENGINE FORGINGS ~~OR CASTINGS~~

I have to report that the ~~Iron or Steel Forgings or Castings~~, as herein described, manufactured by *John Spencer & Sons Ltd.* of *Newburn* for the Engines No. *2153* being constructed by *N. E. M. & Co., Ltd.* of *Sunderland* for the Ship No. , being built by 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. *768-N**N. C.**McC Campbell*  
*Newcastle**10-9-14*

	CRANK SHAFT.	STRAIGHT SHAFTING.		
		THRUST SHAFT.	INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material* ...	<i>Ingot Steel</i>	<i>Ingot Steel</i>	<i>Ingot Steel</i>	<i>Ingot Steel</i>
How made ...	<i>Forged &amp; Machined</i>	<i>Forged &amp; Machined</i>	<i>Forged &amp; Machined</i>	<i>Forged &amp; Machined</i>
Dimensions ...	<i>10</i>	<i>10</i>	<i>10</i>	<i>10 3/8</i>
Progress on Inspection }	<i>Rough turned</i>	<i>Rough turned</i>	<i>Rough turned</i>	<i>Rough turned</i>
Tests on Standard Test Pieces.				
Tensile Test—				
Tons per square inch	<i>31'4. 30'8. 31'6.</i>	<i>31'8.</i>	<i>30'8. 31'2. 31'6. 30'8.</i>	<i>32'0.</i>
Extension per cent 2	<i>30%. 31%. 29%.</i>	<i>31%.</i>	<i>31%. 27%. 29%. 29%.</i>	<i>27%.</i>
Cold Bending Test—				
Angle before fracture	<i>180°. 180°. 180°.</i>	<i>180°.</i>	<i>180°. 180°. 180°. 180°.</i>	<i>180°.</i>
Dates when Inspected	<i>August 18 to September 9-1914</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.