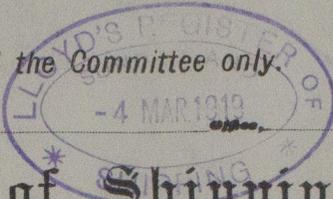


Ept. 7.

For the information of Surveyors and the Committee only.



Received at

Lloyd's Register of Shipping.

(Report on Machinery, No. _____ Port Sunderland)

No. 16546. ENGINE FORGINGS ~~OR CASTINGS~~

The words FORGINGS or CASTINGS, IRON or STEEL, should be struck out if not required.

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. 843 being constructed by J. Dickinson & Sons 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. 4152.N
W.C

W. Campbell
Newcastle

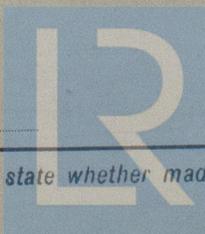
	CRANK SHAFT.	STRAIGHT SHAFTING.		
		THRUST SHAFT.	INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material * ...	<u>Ingot steel</u>	<u>Ingot steel</u>	<u>Ingot steel</u> *	
How made ...	<u>Forged</u>	<u>Forged</u>	<u>Forged</u>	
Dimensions ...	<u>13 1/4</u>	<u>12 3/4</u>	<u>12 1/2</u>	
Progress on Inspection	<u>Rough turned</u>	<u>Rough turned</u>	<u>Rough turned</u>	
Tests on Standard Test Pieces.				
Tensile Test— Tons per square inch ...	<u>37.9, 31.6, 31.2, 31.7, 31.2</u>	<u>32.0</u>	<u>31.4, 31.9, 31.6, 31.8, 31.8</u>	
Extension per cent ...	<u>30%, 28%, 30%, 29%, 30%</u>	<u>32%</u>	<u>29%, 30%, 29%, 33%, 30%</u>	
Cold Bending Test— Angle before fracture ...	<u>180°, 180°, 180°, 180°, 180°</u>	<u>180°</u>	<u>180°, 180°, 180°, 180°, 180°</u>	
Dates when Inspected	<u>December 9, 1918, to February 20, 1919.</u>			

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

* 2 turned shafts used for engines No. 840. sp's Brammond
HED
28-4-19

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.



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Lloyd's Register Foundation

Kawarra
Engine for engine

SUNDERLAND RPT. NO. 27577

[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page]



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