

## Lloyd's Register of Shipping.

(Report on Machinery, No.

Port Newcastle on Tyne

No. \_\_\_\_\_

## ENGINE FORGINGS OR CASTINGS.

I have to report that the ~~Forgings or Castings~~, as herein described, manufactured by The Darlington Forge Ltd. of Darlington for the Engines No. 13/4 being constructed by Swan Hunter & Co. Ltd. of Newcastle 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 and free from defects. These have been despatched to Newcastle

Mark on Forgings or Castings.

Lloyd's  
No 594D  
MR

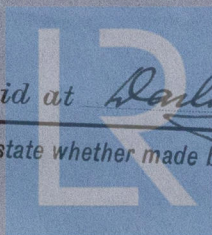
M. RobertsonDarlington 12. 1. 29

	CRANK SHAFT. <u>2-1st Red Wheel rims</u>	THRUST SHAFT. <u>1</u>	INTERMEDIATE SHAFT. <u>1 2nd</u>	TUBE SHAFT. <u>2 Shaft Couplings</u>
	FLYWHEEL SHAFT.			SCREW SHAFT.
Material* ...	<u>Siemens Martin Ingot Steel</u>			
How made ...	<u>Forged and Annealed</u>			
If Annealed... ..	<u>Yes</u>			
Dimensions, Forgings	<u>149 7/8 dia</u>	<u>353 7/8 dia</u>	<u>353 7/8 dia</u>	<u>4 73/4 dia</u>
Weight, Castings				
Progress on Inspection }	<u>Forged and rough machined</u>			
Tests on Standard Test Pieces.				
Tensile Test— Tons per square inch	<u>24/26 = 34.0</u>	<u>254 = 20.2</u>	<u>398 = 28.8</u>	<u>414 = 29.0</u>
Extension per cent	<u>28.0</u>	<u>33.0</u>	<u>32.0</u>	<u>35.0</u>
Cold Bending Test— Angle before fracture	<u>180</u>	<u>180</u>	<u>180</u>	<u>180</u>
Dates when Inspected	<u>24. 8. 28 to</u>	<u>11. 1. 29</u>		

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Fee (if any chargeable) £ 10-10-6To be paid at Darlington

\* If of wrought iron, state whether piled bars or scrap. If of steel, state whether made by the Open Hearth process.



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Foundation

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