

## 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 J. Rogerson & Co. Ltd. of Hobbsingham for the Engines No. 1246 being constructed by Swan Hunter & Co. Ltd. of Wallsend 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. 159

MR

6

M. Robertson

Darlington 16.6.27

	CRANK SHAFT.	THRUST SHAFT.	INTERMEDIATE SHAFTS	TUBE SHAFT.
	<u>3 shafts</u>			
	<del>FLYWHEEL SHAFT.</del>			SCREW SHAFT.
Material* ...	<u>Simen's Martin Ingot Steel</u>			
How made ...	<u>Forged and Annealed</u>			
If Annealed ...	<u>Yes</u>			
Dimensions, Forgings		<u>14 1/4 dia</u>	<u>13 7/16 dia</u>	<u>15 1/4 dia</u>
Weight, Castings				
Progress on Inspection }	<u>Forging and rough machining</u>			
Tests on Standard Test Pieces.	<u>3 shafts</u>			
Tensile Test—	<u>2 1/4 x 18 = 30.0</u>	<u>4 3/8 = 30.4</u>	<u>4 1/4 = 28.8</u>	<u>4 1/2 = 31.2</u>
Tons per square inch				
Extension per cent	<u>33.0</u>	<u>34.0</u>	<u>39.0</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>23.5.27 30.5.27</u>	<u>16.5.27 16.6.27</u>	<u>16.5.27 10.6.27</u>	<u>23.5.27 25.5.27</u>

3 shafts 2 1/4 x 18 = 29.2  
31.0  
180

## PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:

1 Inlet Shaft 2 1/4 x 18 = 28.4 — 1 1/2 x 2 1/4 x 22 = 31.6  
39.0 30.0  
180 180  
1 " " 4 1/8 = 32.0 — 1 1/2 x 4 1/4 = 29.2  
32.0 35.0  
180 180  
1 " " 4 1/2 = 28.8 — 1 1/2 x 4 1/2 = 30.4  
32.0 34.0  
180 180

Fee (if any chargeable) £

To be paid at

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