

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 & Coy Ltd of Nobisingham for the Engines No. 1246 being constructed by Swan Hunter & Coy 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

The words FORGINGS or CASTINGS should be struck out as may be required.

Mark on Forgings or Castings.

Lloyd's
No. 159
MR

M. Robertson

Darlington 16.6.27

	CRANK SHAFT. <u>3 shafts</u>	THRUST SHAFT.	INTERMEDIATE SHAFTS	TUBE SHAFT.
	FLYWHEEL SHAFT.			SCREW SHAFT.
Material* ...	<u>Simons Martin Ingot Steel</u>			
How made ...	<u>Forged and annealed</u>			
If Annealed...	<u>Yes</u>			
Dimensions, Forgings		<u>4 1/4 dia</u>	<u>13 1/16 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— Tons per square inch	<u>418 = 30.0</u>	<u>433 = 30.4</u>	<u>414 = 28.8</u>	<u>419 = 31.2</u>
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, 20.5.27</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 419 = 29.2
31.0
180

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:

1 Tube Shaft 415 = 28.4 - 180 = 21.422 = 31.6
39.0
180
1 " " 416 = 32.0 - 180 = 424 = 29.2
32.0
180
1 " " 421 = 28.8 - 180 = 422 = 30.4
32.0
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.