

# 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. 7306 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. 5924D  
MR

M. Robertson

Darlington 10.11.28

	CRANK SHAFT. <u>2 Wheel Shafts</u>	THRUST SHAFT.	INTERMEDIATE SHAFT. <u>1 Primary wheel Shaft</u>	TUBE SHAFT. <u>1 190</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>503 7/16 dia</u>	<u>39 1/2 dia</u>	<u>193 9/16 dia</u>	<u>-</u>
Weight, Castings ...				
Progress on Inspection	<u>Forged and rough machined</u>			
Tests on Standard Test Pieces.				
Tensile Test— Tons per square inch	<u>3/4 882 = 29.8</u>	<u>102 = 28.4</u>	<u>910 = 28.6</u>	<u>928 = 29.0</u>
Extension per cent	<u>35.0</u>	<u>35.0</u>	<u>37.0</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>10. 9. 28</u>		<u>to 22. 10. 28</u>	

### PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Examined pinions & wheels during assembly and afterwards with teeth cut and found satisfactory. Stamped as above with  Manchester. 4.12.28.

Fee (if any chargeable) £10-10-0

To be paid at Darlington

J. Campbell

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