

## Lloyd's Register of Shipping.

(Report on Machinery, No.

Port

No. F12052. ENGINE ~~FORGINGS OR~~ CASTINGS.

I have to report that the ~~Forgings or~~ Castings, as herein described, manufactured, by Wm. Hopkinson & Co. of Huddersfield for the Engines No. 117/37 being constructed by Wm. The North Eastern Iron & Steel Co. Ltd. of Wallsend-on-Tyne for the Ship No. \_\_\_\_\_, being built by \_\_\_\_\_ of \_\_\_\_\_

have been inspected by us as set forth below, and found to be, so far as can be seen, sound and free from defects. These have been despatched to Wallsend-on-Tyne.

Mark on ~~Forgings or~~ Castings.

Lloyd's			
No.	G634	G670	G736
	GRC	GRC	GRC
	1.11.37	1.11.37	18.11.37

Wm. Black & George P. Chappell  
Manchester  
 14/12/37

	CRANK SHAFT.	THRUST SHAFT.	INTERMEDIATE SHAFT.	TUBE SHAFT.
	FLYWHEEL SHAFT.			SCREW SHAFT.
Material* ...	<u>best Steel</u>	<u>G634.</u>	<u>2.1" G.V. Bodies</u>	<u>F52</u>
How made ...	<u>best</u>	<u>G670.</u>	<u>1.1" do</u>	<u>do F54</u>
If Annealed...	<u>Yes</u>	<u>G736.</u>	<u>1.1 1/2" do</u>	<u>do F53</u>
Dimensions {	<u>✓</u>		<u>1.1"x1"x1" Deep</u>	<u>peric F63</u>
Weight {	<u>✓</u>			
Weight, Castings	<u>See page 1.</u>			
Progress on {	<u>Rough best.</u>			
Inspection {				
Tests on Standard Test Pieces.	<u>G634</u>	<u>G670</u>	<u>G736</u>	
Tensile Test—	<u>30.6</u>	<u>30.6</u>	<u>30.6</u>	
Tons per square inch	<u>15.2</u>	<u>16.8</u>	<u>16.0</u>	
Yield	<u>29.0</u>	<u>31.0</u>	<u>33.0</u>	
Extension per cent	<u>130°</u>	<u>130°</u>	<u>130°</u>	
Cold Bending Test—				
Angle before fracture	<u>28/10/37 To 1/11/37</u>	<u>16/11/37</u>	<u>18/11/37.</u>	
Dates when Inspected				

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Hammer Tests Satisfactory

Fee (if any chargeable)

See Page 1.

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.