

# Lloyd's Register of Shipping.

(Report on Machinery, No. 95796 Port Three)No. F12052 ENGINE ~~FORGING~~ CASTINGS.

I have to report that the ~~Forgings~~ Castings, as herein described, manufactured by Wm. H. Plawson, Sta. of Huddersfield for the Engines No. 1178/37 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 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 Wallsend-on-Tyne.

Mark on ~~Forgings~~ Castings.

Lloyd's  
No. G443  
M.A.B.  
13-9-37

G529 G537 G505  
M.A.B. M.A.B. M.A.B.  
13-9-37 13-9-37 13-9-37

W. Black & Son, R. Chappell  
Manchester  
14/12/37

	CRANK SHAFT.	THRUST SHAFT.	INTERMEDIATE SHAFT.	TUBE SHAFT.
	FLYWHEEL SHAFT.			SCREW SHAFT.
Material* ...	<u>best Steel</u>			
How made ...	<u>best</u>	<u>G443 - 1. 1 1/4" G.V. Coret F51</u>		
If Annealed...	<u>yes</u>	<u>1. 1 1/2" R.A. Valve Coret F56</u>		
Dimensions {	<u>✓</u>	<u>G529 - 1. 1" R.A. Valve Body F57</u>		
Weight { Forgings	<u>✓</u>	<u>G537 - 1. 1 1/4" G.V. Body F51</u>		
Weight, Castings	<u>3-3-9</u>	<u>G505 - 1. 1 1/2" x 1 1/4" x 1" Tee piece F60</u>		
Progress on {	<u>Rough best</u>			
Inspection {				
Tests on Standard Test Pieces.	<u>G443</u>	<u>G529</u>	<u>G537</u>	<u>G505</u>
Tensile Test—				
Tons per square inch ...	<u>31.4</u>	<u>29.6</u>	<u>29.6</u>	<u>30.7</u>
<u>Yield</u>	<u>16.0</u>	<u>15.6</u>	<u>15.8</u>	<u>15.2</u>
Extension per cent	<u>32.0</u>	<u>33.0</u>	<u>30.0</u>	<u>30.0</u>
Cold Bending Test—				
Angle before fracture	<u>130°</u>	<u>130°</u>	<u>130°</u>	<u>130°</u>
Dates when Inspected	<u>9/9/1937</u>	<u>10</u>	<u>13/9/1937</u>	

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Hammer Tests Satisfactory

25 2/6°

12 1/6°

Fee (if any chargeable) 12 1/6

To be paid at

Manchester

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