

Lloyd's Register of Shipping.

(Report on Machinery, No. _____ Port _____)

No. 19428 ENGINE FORGINGS OR CASTINGS.

I have to report that the Forgings or Castings as herein described, manufactured by The Rotherham Forge & R. Mills Ltd. of Rotherham for the ^{Order} Engines No. 9641 being constructed by Messrs Smiths Dock Co. Ltd. of South Bank on Tees 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 _____

Mark on Forgings or Castings.

Lloyd's
No. R.W.F. 18/11/29.

R.W. Hawcett
Sheffield
23/11/29.

	CRANK SHAFT.	THRUST SHAFT.	INTERMEDIATE SHAFT.	TUBE SHAFT.
	FLYWHEEL SHAFT.	6 Reversing links Siemens Forged Yes	2 Bars for Main Big. keeps Steel	SCREW SHAFT.
Material* ...				
How made ...				
If Annealed ...				
Dimensions, Forgings				
Weight, Castings ...				
Progress on Inspection }		Black	Forgings.	
Tests on Standard Test Pieces.		115	117	
Tensile Test.—		29.0	29.0	
Tons per square inch		36.0	23.0	
Extension per cent		180.	180.	
Cold Bending Test.—				
Angle before fracture				
Dates when Inspected		11/11/29 to	18/11/29.	

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

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.



Memorandum to the Committee

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Report on the Committee

ENGINE FORCINGS OF CASTINGS

The Committee has received a report from the Engineer of the Marine Department, who has been instructed to investigate the causes of the failure of the engine castings of the Marine Department, and to report on the results of his investigation.

The report states that the engine castings of the Marine Department have been found to be defective in many respects, and that the causes of the failure are as follows:

1. The castings are of inferior quality.

2. The castings are not properly treated.

3. The castings are not properly finished.

4. The castings are not properly packed.

5. The castings are not properly stored.

6. The castings are not properly handled.

7. The castings are not properly inspected.

8. The castings are not properly tested.

9. The castings are not properly maintained.

10. The castings are not properly repaired.