

For the information of Surveyors and the Committee only.



Received at

Lloyd's Register of Shipping.

(Report on Machinery, No. _____ Port Sunderland)

No. _____ ENGINE FORGINGS OR CASTINGS.

I have to report that the ~~Iron or Steel Forgings or Castings~~, as herein described, manufactured by The Darlington Forge Ltd of Darlington for the Engines No. 543 being constructed by Mr. Deaford & Co. Ltd of Sunderland 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

Mark on Forgings or Castings.

Lloyd's
No. 2944D
IR

M. Robertson
Darlington 9.9.19

| | CRANK SHAFT. | STRAIGHT SHAFTING. | | |
|---|-------------------------|---------------------|----------------------|------------------|
| | | THRUST SHAFT. | INTERMEDIATE SHAFTS. | PROPELLER SHAFT. |
| Material* ... | <u>S.M. Ingot Steel</u> | | | |
| How made ... | <u>Forged</u> | | | |
| Dimensions ... | <u>14 1/2 dia</u> | | | |
| Progress on Inspection } | <u>Forged Finished</u> | | | |
| Tests on Standard Test Pieces. | <u>Heads</u> | <u>Ends</u> | <u>Pin</u> | |
| Tensile Test— Tons per square inch | <u>24756 = 30.6</u> | <u>24794 = 32.0</u> | <u>24796 = 32.0</u> | |
| Extension per cent | <u>32.0</u> | <u>30.0</u> | <u>29.0</u> | |
| Cold Bending Test— Angle before fracture | <u>180</u> | <u>180</u> | <u>180</u> | |
| Dates when Inspected | <u>4.4.19. 9.9.19</u> | | | |

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Fee (if any chargeable) £ ✓
To be paid at



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Lloyd's Register

Foundation

WS2-0147

* If of iron, state whether scrap or puddled iron. If of steel, state whether made on the Open Hearth process.