

K. Lloyd's Register of British & Foreign Shipping.

Order 60685/60289. (Report on Machinery, No.

Port

No. **16274** ENGINE FORGINGS OR CASTINGS.

I have to report that the ~~Iron~~ Steel Forgings ~~or Castings~~, as herein described, manufactured by **Messrs. Haniel & Lueg** of **Düsseldorf** for the Engines No. **772** being constructed by **Messrs. John Dickinson & Sons** of **Sunderland** for the Ship No. **501**, being built by **Messrs. L. Thompson & Sons Ltd.** of **Sunderland** have been inspected by me as set forth below, and found to be, so far as can be seen, **sound and free from defects.**

1 Intermediate shaft.

Mark on Forgings or Castings.

Lloyd's
No. **8437.**
K.H.R.13.

Düsseldorf 18th February 1913.

| | CRANK SHAFT. | STRAIGHT SHAFTING. | | |
|-----------------------------------|--------------|--------------------|---------------------------|------------------|
| | | THRUST SHAFT. | INTERMEDIATE SHAFTS. | PROPELLER SHAFT. |
| Material* ... | | | Annealed S.M.I.St. | |
| How made ... | | | forged | |
| Dimensions ... | | | 13 1/2" diam. | |
| Progress on { Inspection } | | | rough turned | |
| Tests on Standard Test Pieces. | | | diameter .798" | |
| Tensile Test— | | | 31,1 | |
| Tons per square inch ... | | | 28,6 | |
| Extension per cent ... | | | 180 degr. good | |
| Cold Bending Test— | | | 23.12.12., 31., | |
| Angle before fracture ... | | | 17.2.1913. | |
| Dates when Inspected | | | | |

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

Fee (if any chargeable) £
To be paid at **Düsseldorf**

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