

Rpt. 7.

For the information of Surveyors and the Committee only.

Received at \_\_\_\_\_ Office, \_\_\_\_\_ 19

# Lloyd's Register of Shipping.

Order: 162730.

(Report on Machinery, No. 7398 Port Gothenburg)

No. 26024 ENGINE FORGINGS OR CASTINGS.

I have to report that the Forgings or Castings, as herein described, manufactured by Messrs. Gutehoffnungshütte A.G. of Sterkrade for the Engines No. \_\_\_\_\_ being constructed by Messrs. A.B. Götaverken of Gothenburg for the Ship No. 413, being built by Messrs. A.B. Götaverken of Göteborg 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 Göteborg.

Mark on Forgings or Castings.

Lloyd's  
No. 271/272  
P.K. 22.12.27

Düsseldorf 23rd December 1927.

*P. Kerhder*

I built up four throw crank shaft and compressor crank throw.

|   | CRANK SHAFT               |               | INTERMEDIATE SHAFT        |               | PISTON SHAFT   |               |
|---|---------------------------|---------------|---------------------------|---------------|----------------|---------------|
|   | 1 crank throw             | 1 crank throw | 1 crank throw             | 1 crank throw | 2 webs         | 1 crank throw |
| Material* ...                               | Annealed                  |               | Siemens                   | Martin        | Steel          |               |
| How made ...                                | forged                    |               | forged                    | forged        | cast           |               |
| If Annealed ...                             | Yes                       |               | Yes                       | Yes           | Yes            |               |
| Dimensions, Forgings                        | 350 mm Ø                  |               | 350 mm Ø                  | 350 mm Ø      |                |               |
| Weight, Castings                            |                           |               |                           |               |                |               |
| Progress on Inspection                      | rough turned and finished |               | rough turned and finished |               |                |               |
| Tests on Standard Test Pieces.              | .798                      | 3"            | .798                      | 3"            | .798           | 3"            |
| Tensile Test—<br>Tons per square inch       | 30,5                      | 30,9          | 29,7                      | 28,5          | 30,5           | 29,1          |
| Extension per cent                          | 32,0                      | 30,6          | 30,6                      | 31,0          | 32,0           | 33,3          |
| Cold Bending Test—<br>Angle before fracture | 180 degr. good            |               | 180 degr. good            |               | 120 degr. good |               |
| Dates when Inspected                        | 22.12.27.                 |               | 22.12.27.                 |               | 22.12.27.      |               |

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

|           |      |    |      |                   |       |             |
|-----------|------|----|------|-------------------|-------|-------------|
| 1 pin     | .798 | 3" | 31,1 | Tons p. sq. inch. | 30,6% | Elongation. |
| 1 journal | .798 | 3" | 28,2 | Tons p. sq. inch. | 34,6% | Elongation. |
| 1 journal | .798 | 3" | 29,9 | "                 | 34,0% | "           |
| 1 journal | .798 | 3" | 29,7 | "                 | 32,0% | "           |
| 3 pins    | .798 | 3" | 29,9 | "                 | 33,3% | "           |
| 3 pins    | .798 | 3" | 28,2 | "                 | 34,6% | "           |
| 3 pins    | .798 | 3" | 29,1 | "                 | 33,3% | "           |

Fee (if any chargeable) £

To be paid at Düsseldorf.

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