

For the information of Surveyors and the Committee only.

Received at _____ Office, _____ 19__

Lloyd's Register of Shipping.

(Report on Machinery, No. _____ Port _____)

No. 249. ENGINE FORGINGS ~~OR CASTINGS~~

I have to report that the Forgings ~~or Castings~~, as herein described, manufactured by Messrs. Mitsubishi Zosen Kaisha, Ltd.. of Nagasaki. for the Engines No. 474 being constructed by Messrs. Nagasaki Works, of Mitsubishi Zosen Kaisha, Ltd. for the Ship No. 474, being built by them.

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~~

12 Connecting rods for Main Engines.
2 " " for Injection Air Compressor.

K. Kishigami

NAGASAKI. 20th Oct. 1930.

Lloyd's
No. 249 *R*
K. 30-5-30.
5/25-7-30.

| | CRANK SHAFT. | THRUST SHAFT. | INTERMEDIATE SHAFT. | TUBE SHAFT. |
|--------------------------------|----------------------------|-------------------------------------|--------------------------------|------------------------------------|
| | | Connecting rods for Main Engines. | | Connecting rods for Inj. Air Comp. |
| | FLYWHEEL SHAFT. | | | SCREW SHAFT. |
| Material | | Ingot steel | | Ingot steel |
| Manufacture | | Forged | | Forged |
| Heat treated | | Yes | | Yes |
| Dimensions, Forgings | | 180 m/m | | 135 m/m |
| Weight, Castings | | / | | / |
| Process of production | | Forged, rough turned, and Finished. | | |
| Tests on Standard Test Pieces. | Test Mark:- | COR 2. 3. 4. 5. 6. 7. | | COR 14. 15. |
| Ten. | | 28.8 29.6 30.0 30.4 30.8 30.0 | | |
| Elong. | | 39.0 35.0 38.0 35.9 39.5 39.0 | | |
| Stress per square inch | Test Mark:- | 8. 9. 10. 11. 12. 16. | | 28.8 28.4 |
| Ten. | | 29.2 29.6 29.6 29.2 29.2 30.4 | | |
| Elong. | | 38.7 38.7 38.3 38.5 38.5 34.4 | | 34.1 36.0 |
| Deflection per cent | | 180° | without fracture | 180° |
| Time before fracture | | | | |
| When Inspected | | 13-1-30 to 23-7-30. | | 26-2-30 to 24-6-30. |

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:-

Mark on Con. Rods for Inj. Air Comp.

LLOYD'S
No. 249-A. *R*
K.K. 5/24-6-30.

(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.

