

Engines made at Osaka By whom made Osaka Iron Works, Ltd.

*See 602
No 892.
Tensho Maru
Intermediate Thrust & Screw Shafts*

Kobe,

18th December, 1916.

A. L. Jones

Messrs. The Sumitomo Steel Works, Ltd. survey at their Works and at The Osaka Iron Works the following S.M. openhearth steel forgings:-

Five Intermediate shafts 11½ ins. diam.

One Propeller shaft 13 ins. diam.

One Thrust shaft 12 ins. diam.

in the forged, rough turned and finished states had found them to be, as far as could be ascertained, free from defect. The shafts are intended for the Single Screw Steamer, Yard No. 892 under construction at The Osaka Iron Works.

The following are the results of the tests made:-

| Name of shaft | Mark | Ingot No. | Tenacity as forged tons/ " | Elong- ation. | Mark on finished shaft. |
|--------------------|------|-----------|----------------------------|---------------|-------------------------|
| Intermediate shaft | I. 1 | 4692 | 29.5 | 35% | LLOYDS 20/11/16 A.L.J. |
| " | " | I. 2 | 4731 | 29.9 | " " " |
| " | " | I. 3 | 4736 | 30.3 | " 23/11/16 " |
| " | " | I. 7 | 4775 | 31.6 | " 20/11/16 " |
| " | " | I. 10 | 4828 | 29.8 | " 23/11/16 " |
| Screw shaft | S. 1 | 4846 | 28.2 | 34% | " " " |
| Thrust shaft | T. 1 | 4899 | 30.6 | 35% | " 20/11/16 " |

A satisfactory bend test was made from each forging.



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Each shaft was forged from an ingot of Octagonal section $28\frac{1}{2}$ ins. over flats, sectional area 691.5 sq. ins. being over five times the sectional area of the body of the largest shaft.

Fee Yen 160.00

Exp. " 25.00

Yen 185.00

Arthur Jones

Surveyor to Lloyd's Register.

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Each shaft was forged from an ingot of Octagonal section 28½ ins. over flats, sectional area 691.5 sq. ins. being over five times the sectional area of the body of the largest shaft.

Fee Yen 160.00
Exp. " 25.00
Yen 185.00

Arthur L. Jones
Surveyor to Lloyd's Register.



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