

COPY

Lloyd's Register of Shipping.

Nagasaki, 28th February 1933.

Cert. No. 662.

This is to Certify that at the request of Messrs. Mitsubishi Zosen Kaisha, Ltd., Nagasaki, the Open Hearth Steel Forgings ~~xxxx Castings~~ named below ~~were~~ ^{was} examined and tested at their works on the 6th October 1932 & subsequent dates, and found to be as far as could be ascertained, sound and free from defect.

One (1) Semi-built, Three-throw Crank Shaft.

510 m/m, dia. Examined in finished condition.

~~Drop tests~~

Note:- In addition to undermentioned tests, tests were made from the material taken from between the webs near crank pins, which were found satisfactory.

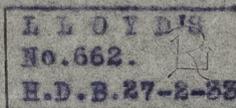
Test Mark	Tenacity Tons/sq. in	Elongation % in 2"	Bend 1" x 1/2" x 180°
KCW - 1 A. C.	29.2 29.8	36.6 37.7	Good.
KCW - 4 A. C.	31.6 31.6	33.3 34.6	Good.
KCW - 8 A. C.	32.8 32.8	34.4 35.2	Good.
KCJ - 1.	30.4	38.4	Good.
KCJ - 2.	31.6	31.6	Good.
KCJ - 3.	30.4	34.8	Good.

This Crank Shaft is intended for Harima Dock, Yard No. 189.

made to the order of Messrs. Kobe Steel Works. and ~~has~~ ^{has} been stamped as follows:-

Fee Yen 150:00

Expenses "



H.D. Buchanan

Surveyor to Lloyd's Register.

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:-

"While the Committee use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the committee nor the Society are under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society or for any error of judgment, default, or negligence of the Surveyors, or other Officers or Agents of the Society.

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Lloyd's Register of Shipping

Nagasaki, Japan

Ref No. 123

This is to certify that the request

of the Lloyd's Register of Shipping, Limited, for the purpose of the Open Hearth Steel Forgings or Castings named below, examined and tested at their works on the 12th day of August 1922, and found to be as far as could be ascertained, sound and free from defects, and that the same are of the quality specified in the following table:

Test Mark	Tensile Tons in	Elongation % in	Bend
100-1	27.5	21.7	3
100-2	27.5	21.7	3
100-3	27.5	21.7	3
100-4	27.5	21.7	3
100-5	27.5	21.7	3
100-6	27.5	21.7	3
100-7	27.5	21.7	3
100-8	27.5	21.7	3
100-9	27.5	21.7	3
100-10	27.5	21.7	3

intended for use in the construction of the hull and machinery of the vessel named above, and has been stamped as follows:—



For Lloyd's Register of Shipping, Limited
 Registrar

[Signature]

Registrar to Lloyd's Register

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:—
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