

# COPY

## Lloyd's Register of Shipping.

Nagasaki, 28th February 1932.

Cert. No. 663.

This is to Certify that at the request of Messrs. Mitsubishi Zosen Kaisha, Ltd., Nagasaki.

the Open Hearth Steel Forgings ~~or Castings~~ named below <sup>was</sup> ~~were~~ examined and tested at their works on the 25th October 1932 & subsequent dates, and found to be as far as could be ascertained, sound and free from defect.

One (1) Semi-bait, Four-throw Crank Shaft.

510 m/m, 81a. 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.

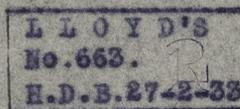
Test Mark	Tenacity Tons/sq. in	Elongation % in 2"	Bend 1" x 1/2" x 180°
KCW - 2 A.	28.0	39.0	Good.
"    " C.	30.4	34.7	
KCW - 5 A.	32.0	35.0	Good.
"    " C.	32.0	36.0	
KCW - 6 A.	29.6	36.5	Good.
"    " C.	29.6	38.0	
KCW - 7 A.	30.4	35.0	Good.
"    " C.	30.0	37.0	
KCJ - 1.	30.4	38.4	Good.
KCJ - 2.	31.6	31.6	Good.

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

made to the order of Messrs. Kobe Steel Works. and <sup>has</sup> ~~have~~ been stamped as follows:-

Fee Yen 225:00

Expenses "



*H. 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

Cert. No. 222

This is to certify that in the request of the Hon. Board of Trade, London, the Open Hearth Steel Forging works named below were examined and tested at their works on the 15th day of August 1881 and found to be as far as could be ascertained sound and free from defect.

Test Mark	Tensile in Tons	Extension of in	Beam Test
100	20.0	0.15	Good
100	20.0	0.15	Good
100	20.0	0.15	Good
100	20.0	0.15	Good
100	20.0	0.15	Good
100	20.0	0.15	Good
100	20.0	0.15	Good

intended for use as a test specimen and has been stamped as follows:—

Yer 1881



Surveyors 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 exercised, it is to be understood that the Committee, the Surveyors, or the Agents of the Society, are not held responsible for any error or omission in any report or certificate issued by the Society, or in any entry in the Register, Book of Order, or any other publication of the Society, or for any error of judgment, detail, or negligence of the Surveyors, or other Officers or Agents of the Society."

