

Lloyd's Register of Shipping.

Port YOKOHAMA,6th April, 1933.

This is to Certify that

J. P. Nicholas,

the undersigned Surveyor to this Society did at the request of Messrs. Yokohama Dock Co., Ltd, attend at their works on the 6th December, 1932, and subsequently to examine during construction one turning engine intended for the main engines of Harima Ship-building & Engineering Co., Ltd, Ship No.189.

Test pieces were stamped on the worm wheel shaft and worm shafts for this engine and tested with the following results.

Description	Mark	Tensile T/sq in	Elongation	Bend 180°
Worm wheel shaft	H.708 W.W.S.	30.9	35 %	Good
Worm shaft	H.708 W.S.	31.0	34 %	Good
Worm shaft	H.708 W.S.B.	33.1	31.05	Good

The above shafts were examined in rough turned and finished condition and found as far as could be ascertained, sound and free from defects.

The turning engine was examined on completion of assembling (Driving motor not fitted at Yokohama) and stamped on the outside of casing :-

LLOYD'S.
No.750.
J.P.N. R 4/4/33.

Fee.....Yen 80.00

Expenses.. " 2.00

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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THE UNIVERSITY OF CHICAGO

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