

Rpt. 4c

- 6 OCT 1958

Date of writing report 19th Aug. 1958

Received London

Port YOKOHAMA

No. 27113

Survey held at Tokyo & Yokohama

No. of visits 32

First date 18th Apr. 1957

Last date 9th August, 1958

FIRST ENTRY REPORT ON AUXILIARY STEAM TURBINE OR STEAM RECIPROCATING ENGINES

Name of Ship S.S. "RIYADH MARU"

Owners Nippon Yushutsu Sekiyu Co., Ltd.
(Or Consignees)

Ship Built at Yokohama, Japan

by Nippon Kōkan K.K. Tsurumi Shipyard when 8-1958

Yard No. 742

Auxiliary turbines or engines made at Tokyo, Japan

by Ishikawajima Heavy Industries Co., Ltd. when 8-1958

Eng. Nos. I.A. 1607 I.A. 1608

Total No. of sets and description 2 sets Multistage Impulse Type Single Reduction Gear Turbine

STEAM TURBINES. No. of turbines per set 1 BHP per set 880 Steam pressure 40 kg/cm² Steam temperature 440°C

Type of turbines Mult-Stage Impulse Turbine

Particulars of gearing Single Reduction Double Helical Gear

RPM of turbine shaft(s) 9806 PCD of pinion(s) 114.22 mm PCD of wheel(s) 933.37 mm Material of pinion(s) Ni Cr Mo Steel Material of wheel rim(s) Forged Carbon Steel Has rotor been dynamically balanced? Yes Diameter of rotor shaft at bearings 70 mm Does the set include a steam condenser? Yes Is an emergency governor fitted? Yes No. and purpose of attached pumps One(1) L.O. Pump & One(1) L.O. Hand Pump per set Has the set been tested in the shop? Yes If so, for how long at full power? 4 Hours Was the governing tested and found satisfactory? Yes Was the set tested with driven machinery attached? Yes

Identification marks IA 1607 IA 1608 Particulars of driven machinery 750 KVA 445 V 1200 R.P.M. Generator

Rotor No. Y-11341-2 No. Y-11341-1

Pinion No. Y-10149 No. Y-10150

Wheel No. Y-10879-A No. Y-10879-B

STEAM RECIPROCATING ENGINES. BHP of each at RPM Steam pressure

Dia. of cylinders Stroke Dia. of crankshaft journals Pins Material of crankshaft Is crankcase enclosed? If so, is the internal volume 20 cu. ft. or over? No. and total area of crankcase explosion relief devices fitted? Are the bearings forced lubricated? No. and purpose of attached pumps Is a Governor Fitted? Identification Marks

Particulars of Driven Machinery

ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over YOKOHAMA M4695 & M4659

For generators under 100 Kw., has Makers' Certificate been obtained? - Are Certificates attached? -

The foregoing description is correct.

S. Ohyama

Manufacturer

Is this machinery duplicate of a previous case? No If so, which? -

GENERAL REMARKS. State if the machinery has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters. State quality of materials and workmanship. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.

The Electric Generator Sets have been constructed under Special Survey in accordance with the Rules, approved plans and Secretary's letters.

The Quality of material and workmanship are sound and good.

The Electric Generator Sets have been examined under full working conditions in the shop and found satisfactory.

Survey Fee ¥ 108,000. 18th JUNE 1958. ISHIKAWAJIMA H.I.C.

Expenses

Date when a/c rendered

M. H. Thomson

Engineer Surveyor to Lloyd's Register

Declaration to be signed by Surveyor at fitting-out Port :- The above described machinery has been fitted on board the S.S. "RIYADH MARU" in a proper manner and found satisfactory when tested on the date 14-6-58 under full working conditions.

M. H. Thomson

Engineer Surveyor to Lloyd's Register

012744-012751-0031

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