

23 FEB 1960

Rpt. 4c

Date of writing report

Received London

Port

No. FE-7148

Survey held at Kobe

No. of visits 19

First date 9-1-59

Last date 24-9-59

FIRST ENTRY REPORT ON AUXILIARY STEAM TURBINE OR STEAM RECIPROCATING ENGINES

Name of Ship S.S. "ORIENTAL GIANT" Owners Tanker Service Inc., Liberia
 (Or Contract No. if name unknown) (Or Consignees)
 Ship Built at Sasebo, Japan by Sasebo Ship Industry Co. Ltd. when Dec. 1959 Yard No. 200
Mitsubishi H.I. Reorganized Ltd.
 Auxiliary turbines or engines made at Kobe, Japan by Kobe Shipyard & Engine Works when Sep. 59 Eng. Nos. 1816, 1817
 Total No. of sets and description 2 sets 1250 SHP Mitsubishi-Westinghouse All Impulse Single
Reduction Geared Steam Turbines for 1150 KVA A.C. Electric Generator

STEAM TURBINES. No. of turbines per set 1 S BHP per set 1250 Steam pressure 40kg/cm2 Steam temperature 430°C
 Type of turbines Mitsubishi-Westinghouse All Impulse Single Reduction Geared Turbine
 Particulars of gearing Double Helical Gear (No. of Teeth 43:324 Spiral Angle 40°-2'-12"
 (Tooth Width 125mm Pressure Angle 14½° D.P. 8,422
 RPM of turbine shaft(s) 904.2 PCD of pinion(s) 129.69mm PCD of wheel(s) 977.16mm Material of
 pinion(s) Ni-Steel Forging Material of wheel rim(s) Steel Forging Has rotor been dynamically balanced? Yes Diameter of rotor
 shaft at bearings 65mm Does the set include a steam condenser? Yes Is an emergency governor fitted? Yes No. and purpose of
 attached pumps. 2 (1 Main L.O. Gear Pump Has the set been tested in the shop? Yes If so, for how long at full
1 Aux. L.O. Gear Pump for Starting power? 4 Hours Was the governing tested and found satisfactory? Yes Was the set tested with driven machinery attached? Yes
 Identification marks LLOYD'S KOB pm 24-9-59 LR M.No.1816 Particulars of driven machinery A-C Generator
LLOYD'S KOB pm 24-9-59 LR M.No.1817 (Rated Output 1150 KVA
 (Speed of Generator 1200 r.p.m.
 (Voltage 450 V
 (Current 1475 A

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, M-5872
 For generators under 100 Kw., has Makers' Certificate been obtained? _____ Are Certificates attached? _____

The foregoing description is correct.

for H. Shimizu
 H. Shimizu, General Manager Manufacturer
 KOBE SHIPYARD & ENGINE WORKS.
 MITSUBISHI HEAVY-INDUSTRIES, REORGANIZED, LIMITED

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.
 These steam turbines have been constructed under special survey in accordance with the Rules, approved plans and secretary's letters.
 The workmanship is sound and good.
 These turbo generator sets have been examined under full working condition in the shop and found satisfactory.

Survey Fee ¥136,800.-
 Expenses _____
 Date when a/c rendered OCT 23 1959

P. H. M. M. M. *J. Kono*
 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. "ORIENTAL GIANT"
 at Sasebo, Japan in a proper manner and found satisfactory when tested on the (date) 16 & 17 Nov. 1959 under full working
 conditions.

G.M. Kersey
 G.M. Kersey & A. Shimizu
 Engineer Surveyor to Lloyd's Register
 Lloyd's Register Foundation
 012159-012164-0141