

REC'D NEW YORK JUN 26 1953

REPORT ON STEAM TURBINE MACHINERY. No. 4472

Received at London Office 31 JUL 1953

Report made on the TANKER "ANDROS VENTURE" ... Survey held at Lynn, Mass. ... Date, First Survey 24, April ... Last Survey 7, May 1953 ...

M TURBINE ENGINES, &c.—Description of Engines. Two 12,500 H.P. Cross Compound Marine Propulsion Units.

Ahead one ... Astern one ... Alternating Current Generator ... Direct Current Generator ... Propelling Motors, Type ...

Table with columns: H.P., I.P., L.P., ASTERN. Rows include: HEIGHT OF BLADES, DIAMETER AT TIP, NO. OF ROWS.

Power at each turbine gear output shaft ... H.P. 6330 ... L.P. 6170 ... H.P. 10,042 ... L.P. 12,967 ...

Between centres of pinion and wheel faces and the centre of the adjacent bearings ... H.P. none ... L.P. 5.25 ...

Shafts, diameter as per rule ... Thrust Shaft, diameter at collars ... Tube Shaft, diameter as per rule ...

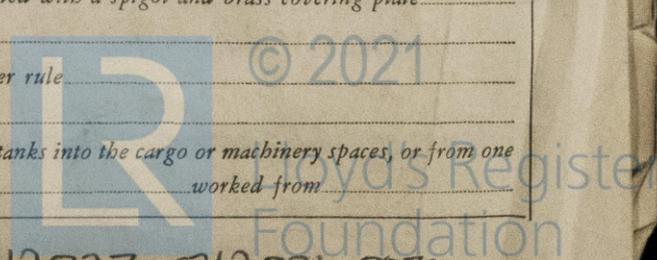
Between bushes as per rule ... Is the after end of the liner made watertight in the propeller boss ...

Conformance ... Is the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a ...

of trial ... No. of Turbines fitted with astern wheels ... L.P. only ... Feed Pumps ...

then ste ... No. and size ... Lubricating Oil Pumps, including Spare Pump, No. and size ...

Independent Power Pump Direct Suctions to the Engine Room ... Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes ...



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BOILERS, &c.— (Letter for record) Total Heating Surface of Boilers Working Pressure

Is Forced Draft fitted No. and Description of Boilers

Is a Report on Main Boilers now forwarded? If so, is a report now forwarded?

Is { a Donkey } Boiler fitted? { an Auxiliary }

Plans. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers

Superheaters General Pumping Arrangements Oil Fuel Burning Arrangements

Spare Gear. State the articles supplied:— Std. list as specified by American Bureau of Shipping rules for turbines and reducing

L.E. Grube Turbine Engineering Division General Electric Co.

The foregoing is a correct description,

April 24 May 6-7, 1953

Dates of Survey while building { During progress of work in shops - - } { During erection on board vessel - - - } Total No. of visits three

Dates of Examination of principal parts—Casings April 24 Rotors April 24 Blading April 24 Gearing

Wheel shaft Thrust shaft Intermediate shafts Tube shaft Screw shaft

Propeller Stern tube Engine and boiler seatings Engine holding down bolts Engines tried under steam

Completion of pumping arrangements Boilers fixed

Main boiler safety valves adjusted Thickness of adjusting washers HP 122,000 PSI Identification Mark

Rotor shaft, Material and tensile strength O.H. Steel LP 123,000 PSI Identification Mark

Flexible Pinion Shaft, Material and tensile strength O.H. Steel HS HP 165,500 LS HP 149,000 PSI Identification Mark

Pinion shaft, Material and tensile strength O.H. Steel HS LP 160,000 LS LP 148,250 PSI Identification Mark

1st Reduction Wheel Shaft, Material and tensile strength O.H. Steel HS HP 110,000 PSI Identification Mark

Wheel shaft, Material O.H. Steel Identification Mark Thrust shaft, Material Identification Mark

Intermediate shafts, Material Identification Marks Tube shaft, Material Identification Marks

Screw shaft, Material Identification Marks Steam Pipes, Material Test pressure

Date of test Is an installation fitted for burning oil fuel

Is the flash point of the oil to be used over 150°F Have the requirements of the Rules for the use of oil as fuel been complied with

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo If so, have the requirements of the Rules been complied with

Is this machinery a duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. This machinery has been completed under S

Survey in accordance with approved plans. The forgings and castings were tested by A. B.

Surveyors and for particulars of tests, please refer to the attached report. The workman

and materials are good. The turbines and gears have been tried out in the shop under no

conditions and found satisfactory. The unit has been forwarded to the Davie Shipbuilding

Repairing Co., Ltd., Levis, Quebec, Can.

Copy of Rpt. sent to Intl. Office

Committee's Minute (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee	£	Inclusive fee to be charged later.	When applied for,
Special	£		19
Donkey Boiler Fee	£		When received,
Travelling Expenses (if any)	£	\$2.00	19

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK JUL 15 1953

Assigned Transmit to London

FRIDAY 11 JUN 1954

Lloyd's Register Foundation