

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Report 13th April 1953 When handed in at Local Office 14th April 1953 Port of Gothenburg
 Received at London Office
 Survey held at Gothenburg Date, First Survey - Last Survey - 1953
 (Number of Visits -)
 Name of the Steamer "B. O. K. E. F. O. R. S."
 Aalborg By whom built Aalborg Vaerft A/S Yard No. 81. Tons { Gross 2944 Net 1557 }
 at Copenhagen By whom made Burmeister & Wain Engine No. 1347 When built 1946
 at Aalborg By whom made Aalborg Vaerft Boiler No. 545/6/7 When made 1945
 Horse Power 1616 B.H.P. Owners Rederi AB Clipper Port belonging to Malmö.
 as per Rule $\frac{BHP}{5} = \frac{1616}{5} = 323$ Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 vessel is intended General

Description of Engines 4 cylinders double compound reciprocating engine with exh. turbine Revs. per minute 90 max 95
 (2) 16 1/2" & (2) 35 7/16" Length of Stroke 35 7/16" (900 mm.) No. of Cylinders 4 No. of Cranks 4
 2 x 420 mm 2 x 900 mm. as per Rule
 of journals as fitted 290 mm. Crank pin dia. 290 mm. Crank webs Mid. length breadth - Thickness parallel to axis 165 mm.
 as fitted 290 mm. as per Rule - Mid. length thickness - shrunk Thickness around eye-hole 132 mm.
 diameter as fitted 292 mm. Thrust shaft, diameter at collars as per Rule - as fitted 292 mm.
 as per Rule - Fwd. at CL 360 mm.
 meter as fitted - Screw Shaft, diameter At flange as fitted 330 mm. Is the { tube } shaft fitted with a continuous liner { Yes }
 as fitted - Thickness in way of bushes as fitted - Thickness between bushes as fitted - Is the after end of the liner made watertight in the
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner -
 not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive -
 fitted, is the shaft lapped or protected between the liners. - Is an approved Oil Gland or other appliance fitted at the after end of the tube
 If so, state type. - Length of Bearing in Stern Bush next to and supporting propeller -
 100 mm. Pitch 3900 mm. No. of Blades 4 Material Gun metal whether Moveable - Total Developed Surface 811 sq. feet
 taken from the Main Engines, No. None Diameter - Stroke - Can one be overhauled while the other is at work -
 taken from the Main Engines, No. None Diameter - Stroke - Can one be overhauled while the other is at work -
 size 2 x 9.2 m³ Pumps connected to the Main Bilge Line { No. and size 1 x 30 tons 1 x 120 tons }
 How driven Steam Steam
 No. and size 1 x 120 tons Lubricating Oil Pumps, including Spare Pump, No. and size 1 direct attached; Spare 33 m³/h.
 dent means arranged for circulating water through the Oil Cooler Yes Suctions, connected both to Main Bilge Pumps and Auxiliary
 In Engine and Boiler Room 2 x 3 1/4"; 2 x 2 3/4" and 2 x 2 1/2" in boiler room.
 In Holds, &c. Hold No. 1 2 x 3 1/4"; No. 2 2 x 3 1/4"; No. 3 2 x 3 1/4"
 1/4"; Dry tanks under boilers 2 x 3 1/4" CD in engine room 1 x 50 mm.
 circulating Pump Direct Bilge Suctions, No. and size 1 x 9" (600 t/h) Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges,
 1 x 4" (120 t/h) Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes. Yes
 Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges. Yes
 Suctions fitted direct on the skin of the ship. Yes Are they fitted with Valves or Cocks. Both
 Suctions sufficiently high on the ship's side to be seen without lifting the stokehold plates. Are the Overboard Discharges above the deep water line. Yes
 fitted with a Discharge Valve always accessible on the plating of the vessel. Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate. Yes
 Suctions through the bunkers. Heating coils How are they protected. -
 Suctions through the deep tanks. Have they been tested as per Rule. -
 Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times. Yes
 Suctions of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one
 another. Yes Is the Shaft Tunnel watertight. Yes Is it fitted with a watertight door. Yes worked from E.R. casing

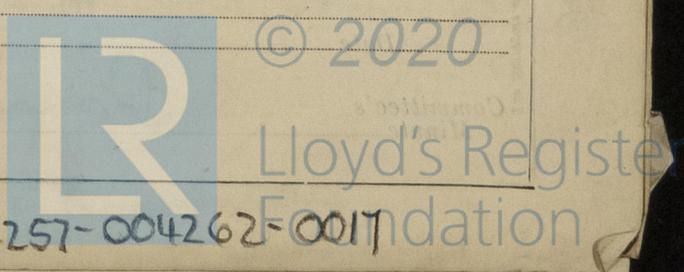
Boilers, &c.—(Letter for record s) Total Heating Surface of Boilers 6905 sq. feet
 Are fitted with Forced Draft All main Which Boilers are fitted with Superheaters. All main
 Location of Boilers 3 Multitubular Capus boilers Working Pressure 228 lbs/in²
 REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 KEY BOILER FITTED? No If so, is a report now forwarded? -
 boiler be used for other than domestic purposes -
 Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval)
 General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

Are spare gear required by the Rules been supplied. Yes
 Principal additional spare gear supplied. -

The foregoing is a correct description.

Manufacturer.



004257-004262-0017

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

Dates of Examination of principal parts—Cylinders Slides Covers
 Pistons Piston Rods Connecting rods
 Crank shaft Thrust shaft Intermediate shafts
 Tube shaft Screw shaft Propeller
 Stern tube Engine and boiler seatings Engines holding down bolts
 Completion of fitting sea connections Boilers fixed Engines tried under steam
 Completion of pumping arrangements Thickness of adjusting washers
 Main boiler safety valves adjusted Crank shaft material Identification Mark Thrust shaft material Identification Mark
 Intermediate shafts, material Identification Marks Tube shaft, material Identification Mark
 Screw shaft, material Identification Mark Steam Pipes, material Test pressure Date of Test
 Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150° F. Yes
 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 No If so, have the requirements of the Rules been complied with
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with -
 Is this machinery duplicate of a previous case - If so, state name of vessel -

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The dimension of crank, thrust and intermediate shafts and all bilge pipe have been checked.
 The exhaust turbine is of "Buer Wach" type, delivered by Messrs. A/G Wester and developing 560
 This report for information of the committee in view of the Owners request to have the class no
 for the vessel amended from BS to 100A1.

A General Examination has also been carried out on the machinery and Rpt.9 will follow in due

Note:
 The area of main cables for steam generators below Rule requirements.

The amount of Entry Fee	... £	:	:	When applied for,
Special	... £	:	:	19
Donkey Boiler Fee	... £	:	:	When received,
Travelling Expenses (if any)	£	:	:	19

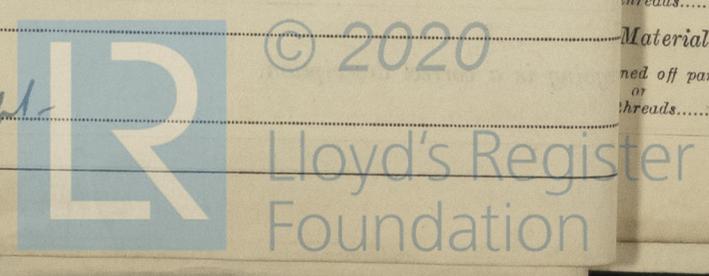
FRI. 1 MAY 1953

Date

N. J. Tullberg
 Engineer Surveyor to Lloyd's Register

The Committee's Minute

See minute on p. 7/1



Gothenburg Office

Certificate to be sent to
 The Surveyors are requested not to write on or below the space for Committee's Minute.