

# 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 - 19-

Name of the Steamer "B. O. K. E. F. O. R. S." (Number of Visits -)

Aalborg By whom built Aalborg Vaerft A/S Yard No. 81. Tons { Gross 2944 Net 1557

When built 1946

at Copenhagen By whom made Burmeister &amp; Wain Engine No. 1347 When made 1945

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

2. Description of Engines 4 cylinders double compound reciprocating engine with exh. turbine Revs. per minute 90 max 95

(2) 16 1/2" &amp; (2) 35 7/16" Length of Stroke 35 7/16" No. of Cylinders 4 No. of Cranks 4

2 x 420 mm 2 x 900 mm. (900 mm.) Mid. length breadth - Thickness parallel to axis 165 mm.

of journals as fitted 290 mm. Crank pin dia. 290 mm. Crank webs shrunk Thickness around eye-hole 132 mm.

as per Rule - Thrust shaft, diameter at collars as fitted 292 mm.

diameter as fitted 292 mm. Fwd. at CL 360 mm.

meter as fitted - Screw Shaft, diameter At flange 330 mm. Is the { tube screw } shaft fitted with a continuous liner { Yes

thickness in way of bushes as per Rule - 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 m<sup>3</sup> Pumps connected to the { No. and size 1 x 30 tons 1 x 120 tons

Main Bilge Line { 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 m<sup>3</sup>/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, &amp;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

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

through the bunkers. Heating coils. - How are they protected. -

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

ment 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

ERS, &amp;c. (Letter for record S) Total Heating Surface of Boilers 6905 sq. feet

re fitted with Forced Draft All main Which Boilers are fitted with Superheaters. All main

 tion of Boilers 3 Multitubular Capus boilers Working Pressure 228 lbs/in<sup>2</sup>

RT 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 -

re 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.

re gear required by the Rules been supplied. Yes

principal additional spare gear supplied. -

The foregoing is a correct description.

Manufacturer.

No. of

004257-004262-0017

© 2020

Lloyd's Register

Foundation



4. 19737.

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

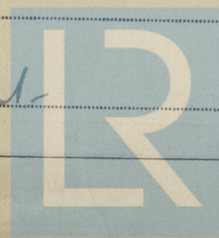
FRI. 1 MAY 1953

Date.....

Committee's Minute.....

See minute on p. 74

V. J. Tilling  
Engineer Surveyor to Lloyd's Register



© 2020

Lloyd's Register Foundation