

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 23 SEP 1931

Date of writing Report 12-9-1931, When handed in at Local Office 14-9-1931 Port of Glasgow
 No. in Survey held at Clydebank Reg. Book. on the S.S. "Eckhound"
 Date, First Survey 8-6-31 Last Survey 11-9-1931
 (Number of Visits 18)
 Built at Bristol By whom built C. Hill & Sons Ltd. Yard No. Tons { Gross 729 Net 301
 Engines made at Clydebank By whom made Ritchison, Blair & Co. Engine No. 161 When built 1929
 Boilers made at Glasgow By whom made D. Rowan & Co. Boiler No. When made 1931
 Registered Horse Power 106 Owners The Glasgow Harbour Trustees Port belonging to Glasgow
 Nom. Horse Power as per Rule 106 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which Vessel is intended Canada

ENGINES, &c.—Description of Engines Triple Expansion

Dia. of Cylinders 14"-23"-38" Length of Stroke 24" No. of Cylinders 3 Revs. per minute 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 19-6-31 Crank pin dia. 7 1/4" Mid. length breadth 13 3/4" Thickness parallel to axis 4 13/16"
 Intermediate Shafts, diameter as fitted 6 7/8" Thrust shaft, diameter at collars as fitted 7 1/4"
 Tube Shafts, diameter as per Rule none Screw Shaft, diameter as per Rule 19-6-31 Is the { screw } shaft fitted with a continuous liner { Yes }
 Bronze Liners, thickness in way of bushes as per Rule 19/32" Thickness between bushes as per Rule 17/32" Is the after end of the liner made watertight in the propeller boss
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner One length
 If the liner does 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 Yes
 If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft
 Propeller, dia. 8'-9" Pitch 8'-9" No. of Blades 4 Material C.I. whether Movable Solid Total Developed Surface 29 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 2 1/4" Stroke 12" Can one be overhauled while the other is at work Yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 1/4" Stroke 12" Can one be overhauled while the other is at work Yes
 Feed Pumps { No. and size How driven } Pumps connected to the Main Bilge Line { No. and size How driven }
 Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size
 Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room
 In Pump Room In Holds, &c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes
 Are the Bilge 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
 Are all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Overboard Discharges above or below the deep water line
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
 What Pipes pass through the bunkers How are they protected
 What pipes pass through the deep tanks Have they been tested as per Rule
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 Is the arrangement 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 compartment to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record 8) Total Heating Surface of Boilers 20400

Is Forced Draft fitted No No. and Description of Boilers 1- Multitubular Working Pressure 180
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? 180
 IS A DONKEY BOILER FITTED? If so, is a report now forwarded?

Is the donkey boiler intended to be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval)

Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

The foregoing is a correct description,

AITCHISON, BLAIR, LIMITED.

Manufacturer.

Thomson.



© 2020

Lloyd's Register Foundation

W1000-0020

25712

1931 June 8 17 22 25 29 July 2 6 9 28 31 Aug 6 13 17 21 27 Sep 1 7 11

Dates of Survey while building

During progress of work in shops --

During erection on board vessel --

Total No. of visits 18

Dates of Examination of principal parts—Cylinders 17-6-31 di Slides 31-7-31 di Covers 17-6-31 di

Pistons 17-6-31 di Piston Rods 17-6-31 di Connecting rods 17-6-31 di

Crank shaft 17-6-31 di Thrust shaft 22-6-31 di Intermediate shafts 25-6-31 di

Tube shaft Screw shaft 28-7-31 di Propeller 31-7-31 di

Stern tube 31-7-31 di Engine and boiler seatings Engines holding down bolts

Completion of fitting sea connections

Completion of pumping arrangements Boilers fixed Engines tried under steam

Main boiler safety valves adjusted Thickness of adjusting washers

Crank shaft material 8 Identification Mark 8965 Thrust shaft material 8 Identification Mark 8970

Intermediate shafts, material 8 Identification Marks 8970 Tube shaft, material Identification Mark

Screw shaft, material 8 Identification Mark 8970 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

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 no If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) This machinery has been built under special survey in accordance with the approved plans and the Society's Rules and requirements, the materials and workmanship are good. It has been forwarded to Grangemouth for fitting on board the S.S. "Bekhound".

Please return to Glasgow after fitting

The amount of Entry Fee ... £ : : When applied for,

Special 2 1/2 ... £ 10.12 22 SEP 1931

Donkey Boiler Fee ... £ : : When received,

Travelling Expenses (if any) £ : : 1.10.31

Committee's Minute GLASGOW 22 SEP 1931

Assigned Deferred

James S. Cairns
Engineer Surveyor to Lloyd's Register of Shipping.



See Glasgow Report
No. 54968

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