

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office -8 SEP 1936

Date of writing Report 5-9-1936 When handed in at Local Office 4-9-1936 Port of Aberdeen
 No. in Survey held at Aberdeen Date, First Survey 5th Feb. 1936 Last Survey 31st August 1936
 Reg. Book. " G H E N G A R R I F F (Number of Visits 24)
 Built at Aberdeen By whom built Messrs John Lewis & Sons Ltd. Yard No. 139 Gross 868.45 Tons
 Engines made at Aberdeen By whom made Messrs John Lewis & Sons Ltd. Engine No. 214 Net 456.06 Tons
 Boilers made at " By whom made " Boiler No. 181 When built 1936
 Registered Horse Power 103 Owners John Kelly Ltd. Port belonging to Belfast
 Nom. Horse Power as per Rule 131 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which Vessel is intended Foreign

ENGINES, &c.—Description of Engines Triple expansion Revs. per minute 104
 Dia. of Cylinders 14 1/2" - 25" - 41" Length of Stroke 30" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 8.16 Crank pin dia. 8 3/8" Crank webs Mid. length breadth 1'-0" Thickness parallel to axis 5 1/2"
 as fitted 8 7/8" Mid. length thickness 5 1/2" shrunk Thickness around eye-hole 3 1/2"
 Intermediate Shafts, diameter as per Rule 7.44 Thrust shaft, diameter at collar as per Rule 8.16
 as fitted nil as fitted 8.375
 Tube Shafts, diameter as per Rule 8.66 Screw Shaft, diameter as per Rule 8.945 Is the tube screw shaft fitted with a continuous liner yes
 as fitted 5.61 as fitted 19/32"
 Bronze Liners, thickness in way of bushes as per Rule .421 Thickness between bushes as per Rule .421 Is the after end of the liner made watertight in the propeller boss yes
 as fitted 5/8" & 2 1/32" as fitted 19/32" If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner yes
 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 No If so, state type yes Length of Bearing in Stern Bush next to and supporting propeller 2'-11"
 Propeller, dia. 10'-9" Pitch 12'-6" No. of Blades 4 Material C.I. whether Moveable No Total Developed Surface 40 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 15" Can one be overhauled while the other is at work yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 15" Can one be overhauled while the other is at work yes
 Feed Pumps { No. and size One - 6" x 4 1/4" x 6" Pumps connected to the Main Bilge Line { No. and size One - 4" x 8" x 8"
 How driven Steam duplex How driven Steam duplex
 Ballast Pumps, No. and size One - 4" x 8" x 8" Lubricating Oil Pumps, including Spare Pump, No. and size yes
 Are two independent means arranged for circulating water through the Oil Cooler yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 2 @ 2 1/4"
 In Holds, &c. 2 @ 3" (1/2 & 1/5)

Main Water Circulating Pump Direct Bilge Suctions, No. and size One - 4" **Independent Power Pump Direct Suctions to the Engine Room Bilges,**
 No. and size One - 3" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes yes
 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 yes
 Are all Sea Connections fitted direct on the skin of the ship yes Are they fitted with Valves or Cocks both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Overboard Discharges above or below the deep water line Above
 Are they each 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
 What Pipes pass through the bunkers Hold bilges How are they protected Wood casings
 What pipes pass through the deep tanks yes Have they been tested as per Rule yes
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 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 yes Is the Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from yes

MAIN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers 2354 ^{sq. ft.}
 Is Forced Draft fitted No No. and Description of Boilers One single ended Working Pressure 200 lbs.
IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes
IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? yes
PLANS. Are approved plans forwarded herewith for Shafting yes Main Boilers yes Auxiliary Boilers yes Donkey Boilers yes
 Superheaters yes General Pumping Arrangements yes Oil fuel Burning Piping Arrangements yes

SPARE GEAR. State the articles supplied:—
 1 set each of air, feed and bilge pump valves.
 1 set bottom end bolts. 1 set top end bolts. 1 set main bearing bolts.
 1 set coupling bolts. 12 washers for gauge glasses. A quantity of iron
 assorted. A quantity of bolts & nuts. 1 safety valve spring.
 1 escape valve spring for each size fitted. 1 eccentric strap. 1 main
 and 1 auxiliary check valve and 1 seat. 1/2 set of fire bars. 6 cylinders
 cover studs and nuts. 6 girth ring studs and nuts. 3 boiler tubes
 3 condenser tubes. 12 condenser ferrules. 1 impeller and shaft for
 circulating pump. 1 propeller.

The foregoing is a correct description,

For JOHN LEWIS & SONS LTD.

John I. Donald
SECRETARY

Manufacturer.



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NOTE.—The words which do not apply should be deleted.

Is a Report also sent on the Hull of the Ship?

If not, state whether, and when, one will be sent?

1936
 Feb. 6. 14. 26. Mar. 13. 23. 27. 31. Apr. 9. 24. 30.
 May 11. 15. 18. June 1. 15. 22. 26. 30. July 8. 13. 24. Aug. 1. 10. 12. 14.
 Aug. 10. 31.
 Total No. of visits 24.

Dates of Examination of principal parts—Cylinders 9-5-36 Slides 15-5-36 Covers 9-5-36.
 Pistons 15-5-36 Piston Rods 15-5-36 Connecting rods 15-5-36.
 Crank shaft 25-2-36 Thrust shaft 26-6-36 Intermediate shafts ✓
 Tube shaft ✓ Screw shaft 26-6-36 Propeller 22-6-36
 Stern tube 26-6-36 Engine and boiler seatings 24-7-36 Engines holding down bolts 10-8-36.
 Completion of fitting sea connections 27-7-36.
 Completion of pumping arrangements 31-8-36 Boilers fixed 10-8-36 Engines tried under steam 31-8-36.
 Main boiler safety valves adjusted 24-8-36 Thickness of adjusting washers P 9/16 S 17/32.
 Crank shaft material Steel Identification Mark 2394. Thrust shaft material Steel Identification Mark 2431.
 Intermediate shafts, material Steel Identification Marks 2398-9-2434 Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Iron Identification Mark 2342 Steam Pipes, material Copper Test pressure 400 lbs. Date of Test 10-8-36.
 Is an installation fitted for burning oil fuel No 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 duplicate of a previous case Yes. If so, state name of vessel SS ROSAPENNA ABN RPT. 14462.

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery of this vessel has been constructed under special survey, in accordance with the Rules and approved plans.

The materials and workmanship are good. The engine & boiler have been securely fitted on board the vessel, tried under power and found satisfactory, and is eligible in my opinion, to be classed in the Register Book, and to have record of survey. I LMC 8.36 and the notation of TS. (C.F.)

The amount of Entry Fee ... £ 3 : 0 :
 Special ... £ 32 : 15 :
 Donkey Boiler Fee ... £ :
 Travelling Expenses (if any) £ : 20.11.1936 23/11

J. Davey
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 11 SEP 1936 TUE. 20 OCT 1936
 Assigned + dml. P. 36



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