

## 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 March, 1936 Last Survey 31st August 1936

Reg. Book.

(Number of Visits 24)

on the

G L E N G A R R I F F

Built at Aberdeen By whom built Messrs John Lewis &amp; Sons Ltd.

Yard No. 139

Gross 868.45

Net 456.06

When built 1936

Engines made at Aberdeen

By whom made Messrs John Lewis &amp; Sons Ltd.

Engine No. 214

when made

Boilers made at

By whom made

Boiler No. 181.

when made

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, &amp;c.—Description of Engines

Triple expansion.

Dia. of Cylinders 14½"-25"-41" Length of Stroke 30" No. of Cylinders 3 Revs. per minute 104

Crank shaft, dia. of journals as per Rule 8.16 as fitted 8.75 Crank pin dia. 8.75 Crank webs Mid. length breadth 1.0" Mid. length thickness 5½" No. of Cranks 3 Thickness parallel to axis 5½" Thickness around eye-hole 3½"

Intermediate Shafts, diameter as per Rule 7.44 as fitted nil Thrust shaft, diameter at collar as per Rule 8.16 as fitted 8.375

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 8.66 as fitted 8.945 Is the tube screw shaft fitted with a continuous liner? yes.

Bronze Liners, thickness in way of bushes as per Rule .561 as fitted 5/8" &amp; 2 1/32" Thickness between bushes as per Rule .421 as fitted 19/32" Is the after end of the liner made watertight in the propeller boss? yes

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

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 2¾" Stroke 15" Can one be overhauled while the other is at work? yes

Bilge Pumps worked from the Main Engines, No. 2 Diameter 2¾" Stroke 15" Can one be overhauled while the other is at work? yes

Feed Pumps { No. and size One - 6" x 4¼" x 6 How driven Steam duplex Pumps connected to the Main Bilge Line { No. and size One - 4" x 8" x 8 How driven Steam duplex

Ballast Pumps, No. and size One - 4" x 8" x 8 Lubricating Oil Pumps, including Spare Pump, No. and size

Are two independent means arranged for circulating water through the Oil Cooler? yes

Bilge Pumps;—In Engine and Boiler Room 2 @ 2¼" Suctions, connected to both Main Bilge Pumps and Auxiliary

In Holds, &amp;c. 2 @ 3" (1/2 9 15)

## 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? 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? worked from

## MAIN BOILERS, &amp;c.—(Letter for record) Total Heating Surface of Boilers 2357 F

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? General Pumping Arrangements? yes Oil fuel Burning Piping Arrangements?

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 &amp; 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 set. ½ set of fine bars. 6 cylinder

cover studs and nuts. 6 girth ring studs and nuts. 3 boiler tubes

3 condenser tubes. 12 condenser feed tubes. 1 impeller and shaft for

circulating pump. 1 propeller.

The foregoing is a correct description,

For JOHN LEWIS &amp; SONS LTD.

J. S. Donald

Manufacturer.



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Lloyd's Register Foundation

003409-003416-0117



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. 27. Aug. 1. 10. 12. 17.  
 Aug. 10. 31.  
 During progress of work in shops --  
 During erection on board vessel ---  
 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 L M C 8.36 and the notation of T S. (C L).

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

The amount of Entry Fee ... £ 3 : 0 :  
 Special ... £ 32 : 15 :  
 Donkey Boiler Fee ... £  
 Travelling Expenses (if any) £  
 When applied for, 19...  
 When received, 20.11.1936 23/11

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

Committee's Minute FRI. 11 SEP 1936

Assigned + dm. C. P. 36

TUE. 20 OCT 1936