

REPORT ON MACHINERY.

No. 17575.

Received at London Office

of writing Report 21st Nov 1919. When handed in at Local Office 29th Nov, 1919. Port of Greenock. WED. 3-DEC. 1919
in Survey held at Port-Glasgow. Date, First Survey 13th September, 1918, Last Survey 20th November 1919.
Book. (Number of Visits 74.)

on the Steel Screw Steamship "ROSEWORTH". Tons { Gross 2554.22
Net 1408.41.
When built 1919.
Built at Port-Glasgow. By whom built Dunlop, Bremner & Co. Limited.
Machinery made at Port-Glasgow. By whom made Dunlop, Bremner & Co. Limited when made 1919.
Engines made at Greenock. By whom made John. G. Kincaid & Co. Limited when made 1919.
Registered Horse Power 175.5. Owners The Robert Stanley Shipping Co. Ltd Port belonging to Greenock-on-tyne.
Horse Power as per Section 28 262. Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.

FINES, &c.—Description of Engines Inverted, Air acting, triple, Condensing. No. of Cylinders 3. No. of Cranks 3.
No. of Cylinders 22" 36" + 59". Length of Stroke 39". Revs. per minute 70. Dia. of Screw shaft 12.47" as per rule. Material of screw shaft 1. Steel as fitted 13".
The screw shaft fitted with a continuous liner the whole length of the stern tube Yes. Is the after end of the liner made water tight
The propeller boss Yes. If the liner is in more than one length are the joints burned —. 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 —. If two
shafts are fitted, is the shaft lapped or protected between the liners —. Length of stern bush 4-10".

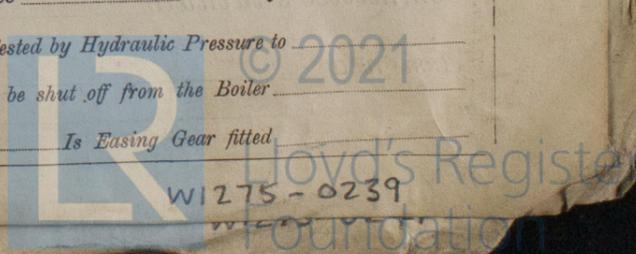
No. of Tunnel shaft 10.24 as per rule. 10.85 as fitted. Dia. of Crank shaft journals 11.49 as per rule. 11.39 as fitted. Dia. of Crank pin 11 3/4". Size of Crank webs 22 1/2 x 7 1/2". Dia. of thrust shaft under
shafts 12". Dia. of screw 15.9". Pitch of Screw 15.3". No. of Blades 4. State whether moveable No. Total surface 77 sq. ft.
No. of Feed pumps 2. Diameter of ditto 3". Stroke 24". Can one be overhauled while the other is at work Yes.
No. of Bilge pumps 2. Diameter of ditto 3 1/2". Stroke 24". Can one be overhauled while the other is at work Yes.
No. of Donkey Engines 5. Sizes of Pumps Ballast 19" 13 1/2" 12" 10". No. and size of Suctions connected to both Bilge and Donkey pumps
Engine Room Two 3", two 3 1/2" and one 2 1/2" in tunnel. In Holds, &c. Fore hold two 3" for main hold two 3", aft
main hold two 3", and after hold two 3" in stokehold.

No. of Bilge Injections Two sizes 9 1/2". Connected to condenser, or to circulating pump C.P.. Is a separate Donkey Suction fitted in Engine room & size Yes, 3 1/2".
Are all the bilge suction pipes fitted with roses Yes. Are the roses in Engine room always accessible Yes. Are the sluices on Engine room bulkheads always accessible None.
Are all connections with the sea direct on the skin of the ship Yes. Are they 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 Discharge Pipes 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.
How are they protected —.
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes.
Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes.

Is the Screw Shaft Tunnel watertight Yes. Is it fitted with a watertight door Yes. worked from Engine top platform.
MATERIALS, &c.—(Letter for record S) Manufacturers of Steel Glasgow & S. Co. + D. Colville & Sons Ltd.
Total Heating Surface of Boilers 4426 sq. ft. Is Forced Draft fitted No. No. and Description of Boilers Two single ended.
Working Pressure 180 lbs. Tested by hydraulic pressure to 360 lbs. Date of test 22/9/19. No. of Certificate 1404, Greenock.
Can each boiler be worked separately Yes. Area of fire grate in each boiler 62 square feet. No. and Description of Safety Valves to
each boiler Two, Spring loaded. Area of each valve 8.29 sq. in. Pressure to which they are adjusted 187 lbs. Are they fitted with easing gear Yes.
Smallest distance between boilers or uptakes and bunkers or woodwork 2-6". Mean dia. of boilers 15-6". Length 10-6". Material of shell plates Steel.

Thickness —. Range of tensile strength —. Are the shell plates welded or flanged —. Descrip. of riveting: cir. seams.
Diameter of rivet holes in long. seams —. Pitch of rivets —. Lap of plates or width of butt straps —.
Percentages of strength of longitudinal joint —. Working pressure of shell by rules —. Size of manhole in shell —.
Material of compensating ring —. No. and Description of Furnaces in each boiler —. Material —. Outside diameter —.
Length of plain part —. Thickness of plates —. Description of longitudinal joint —. No. of strengthening rings —.
Working pressure of furnace by the rules —. Combustion chamber plates: Material —. Thickness: Sides —. Back —. Top —. Bottom —.
Working pressure of stays to ditto: Sides —. Back —. Top —. If stays are fitted with nuts or riveted heads —. Working pressure by rules —. End plates in steam space: —.
Material of stays —. Area at smallest part —. Area supported by each stay —. Working pressure by rules —. Material of stays —.
Material —. Thickness —. Pitch of stays —. How are stays secured —. Working pressure by rules —. Material of Front plates at bottom —.
Thickness —. Material of Lower back plate —. Thickness —. Greatest pitch of stays —. Working pressure of plate by rules —.
Diameter of tubes —. Pitch of tubes —. Material of tube plates —. Thickness: Front —. Back —. Mean pitch of stays —.
Working pressures across wide water spaces —. Working pressures by rules —. Girders to Chamber tops: Material —. Depth and
thickness of girder at centre —. Length as per rule —. Distance apart —. Number and pitch of stays in each —.
Working pressure by rules —. Steam dome: description of joint to shell —. % of strength of joint —.
Diameter —. Thickness of shell plates —. Material —. Description of longitudinal joint —. Diam. of rivet holes —.
Working pressure of rivets —. Working pressure of shell by rules —. Crown plates —. Thickness —. How stayed —.

SUPERHEATER. Type —. Date of Approval of Plan —. Tested by Hydraulic Pressure to —.
Date of Test —. Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler —.
Diameter of Safety Valve —. Pressure to which each is adjusted —. Is Easing Gear fitted —.



IS A DONKEY BOILER FITTED? Yes.

If so, is a report now forwarded? Yes. No. 38861, Glasgow

SPARE GEAR. State the articles supplied:— Two connecting rod top end bolts & nuts. Two connecting rod bottom end bolts & nuts. Two main bearing bolts & nuts. Three crank shaft bolts & nuts. Three tunnel shaft bolts & nuts. One set of feed & discharge pump valves. One set air pump valves. One solid cast iron propeller. Two main boiler safety valve springs. Two main feed check valves. Two donkey feed check valves. One set of pine bars. A quantity of assorted bolts & nuts, and iron of various sizes.

The foregoing is a correct description,
DUNLOP, BREMNER & COY., LIMITED.

Thos Paton
Director

Manufacturer.

Dates of Survey while building
During progress of work in shops -- (1918) Sep. 13-25-26 Oct 3-10-15-17-21-23-25-29-31 Nov: 4-6-7-20-25-27 Dec: 2-10-12-18 (1919) Jan: 13-16-17-24-30 Feb: 4-7-11-24
During erection on board vessel -- 8-21-27-30 Nov: 4-6-12-13-14-17-18-20-21 Dec: 2-9-18-21-24-29 May: 6-9-15-22 June: 5-10-17-16 July: 18-21-29 Aug: 5-14-21 Sept: 5-17-18-19-24-27 Oct: 1-2-11-17-18-24-27
Total No. of visits 74

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 27/3/19 Slides 15/4/19 Covers 15/4/19 Pistons 15/4/19 Rods 2/4/19
Connecting rods 2/4/19 Crank shaft 7/2/19 Thrust shaft 7/2/19 Tunnel shafts 7/8/19 Screw shaft 5/9/19 Propeller 5/9/19
Stern tube 17/9/19 Steam pipes tested 12/11/19 Engine and boiler seatings 26/8/19 Engines holding down bolts 15/10/19
Completion of pumping arrangements 17/11/19 Boilers fixed 15/10/19 Engines tried under steam 17/11/19
Completion of fitting sea connections 26/8/19 Stern tube 29/9/19 Screw shaft and propeller 29/9/19
Main boiler safety valves adjusted 17/11/19 Thickness of adjusting washers Port: 1/2" 3/2" Starb: 1/2" 3/2"

Material of Crank shaft Steel Identification Mark on Do. 437 Material of Thrust shaft Steel Identification Mark on Do. 437
Material of Tunnel shafts Steel Identification Marks on Do. 437 Material of Screw shafts Steel Identification Marks on Do. 437

Material of Steam Pipes Steel Test pressure 600 lbs per square inch.

Is an installation fitted for burning oil fuel yes, partially. Is the flash point of the oil to be used over 150°F. yes.

Have the requirements of Section 49 of the Rules been complied with to complete.

Is this machinery duplicate of a previous case yes. If so, state name of vessel "H" Class of Standard vessels.

General Remarks (State quality of workmanship, opinions as to class, &c. Workmanship good.)

This vessel is being fitted to burn coal or oil fuel, but owing to the iron moulders strike the oil fuel installation is not yet finished, it is however expected to have it completed within about two months, at Wallend. Mr. Ems, and arrangements are being made to inform the Surveyors there of what remains to be done.

The machinery and boilers of the vessel have been constructed under special survey and placed on board in accordance with the Societies Rules, and afterwards seen working satisfactorily on trial in the Firth, they are in my opinion in safe working condition and are respectfully submitted for the notification & L.M.C. 11.19 in the Register Book with the addition - Fitted for oil fuel..... F.P. above 150°F. when the installation has been completed.

It is submitted that
this vessel is eligible for
THE RECORD + L.M.C 11.19.

JAD
JMM 5/12/19

Graham Robertson
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 2 : 0 :
Special ... £ 24 : 16 :
Donkey Boiler Fee ... £ 5 : - :
Travelling Expenses (if any) £ : :
When applied for, 23rd Nov 1919
When received, 24th Nov 1919

Committee's Minute GLASGOW 2 DEC 1919
Assigned + L.M.C 11.19 W.M.

3/12/19 Note re oil fuel



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Lloyd's Register Foundation

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

Rpt. 5a.
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