

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. on the Steel Screw Steamship "ROSEWORTH." (Number of Visits 74.) Tons { Gross 2554.22.
 Net 1408.41.

ater G.W.A. Marlow. Built at Port. Glasgow. By whom built Dunlop, Bremner & Co. Limtd. When built 1919.
 ines made at Port. Glasgow. By whom made Dunlop, Bremner & Co. Limtd. when made 1919.
 lers made at Greenock. By whom made John. G. Kincaid & Co. Limtd. when made 1919.
 ured Horse Power 175.5. Owners The Robert Stanley Shipping Co. Ltd. Port belonging to Trucatti. on. Yum.
 Horse Power as per Section 28 262. Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.

INES, &c.—Description of Engines Inverted, Air Acting, triple, Condensing No. of Cylinders 3 No. of Cranks 3
 of Cylinders 22" 36" + 59" Length of Stroke 39" Revs. per minute 70" Dia. of Screw shaft as per rule 12.47" Material of 1. Steel
as fitted 13" screw shaft)

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

are fitted, is the shaft lapped or protected between the liners — Length of stern bush 4 - 10"

of Tunnel shaft as per rule 10.24 10.85" Dia. of Crank shaft journals as per rule 11.29 11.39" Dia. of Crank pin 11 3/4" Size of Crank webs 22 1/2 x 7 1/2" Dia. of thrust shaft under

ers 12" Dia. of screw 15.9" Pitch of Screw 15.3" No. of Blades 4 State whether moveable No Total surface 77 sq. ft.

of Feed pumps 2" Diameter of ditto 3" Stroke 24" Can one be overhauled while the other is at work Yes.

of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 24" Can one be overhauled while the other is at work Yes.

of Donkey Engines 5 Sizes of Pumps 1 Ballast Pump 19" 13 1/2" 12" 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. The hold two 3" for main hold two 3" aft

main hold two 3" and after hold two 3" in stokehold.

of Bilge Injections The 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"

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

all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both

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

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

at pipes are carried through the bunkers None How are they protected —

all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes.

the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes.

the Screw Shaft Tunnel watertight Yes. Is it fitted with a watertight door Yes. worked from Engine top platform.

MLERS, &c.—(Letter for record S) Manufacturers of Steel Glasgow & S. Co. + D. Colville & Sons Ltd.

al Heating Surface of Boilers 4426 sq. ft. Is Forced Draft fitted No No. and Description of Boilers Two single ended.

orking Pressure 180 lbs. Tested by hydraulic pressure to 360 lbs. Date of test 22/9/19. No. of Certificate 1404, Greenock.

each boiler be worked separately Yes Area of fire grate in each boiler 62 square feet. No. and Description of Safety Valves to

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.

allest distance between boilers or uptakes and bunkers or woodwork 2 - 6" Inside Mean dia. of boilers 15.6" Length 10.6" Material of shell plates Steel.

ickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

of compensating ring plate No. and Description of Furnaces in each boiler Material Outside diameter

gth of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

orking pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

h of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

erial of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

erial Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

a at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

ickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

meter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

h across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

ickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each

orking pressure by rules Steam dome: description of joint to shell % of strength of joint

meter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

h of rivets Working pressure of shell by rules Crown plates Thickness How stayed

UPERHEATER. 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

W1275-0239

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IS A DONKEY BOILER FITTED? *Yes.*

If so, is a report now forwarded? *Yes. 7938861, Glasgow*

SPARE GEAR. State the articles supplied:— *Two connecting rod top end bolts thrust. Two connecting rod bottom end bolts thrust. Two main bearing bolts thrust. Three crank shaft bolts thrust. Three tunnel shaft bolts thrust. One set of feed slide 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 thrust, and iron of various sizes.*

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

Thos Paton

Manufacturer.

Director

Dates of Survey while building { During progress of work in shops - - (1918) Sep. 12-25-26 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 Mar. 2-9-18-21-24-29 May 6-9-15-22 June 5-10-12-16 July 18-21-29 Aug 5-14-21 Sept 5-17-18-19-24-27 Oct. 8-21-27-30 Nov 4-6-12-13-14-17-18-20-27
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. Bbl. 7/2 3/2. Star. Bbl. 7/2 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 *boilers 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. M. Ym., 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.

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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