

REPORT ON MACHINERY.

No. 38324

Received at London Office

WED. 27 NOV. 1918

Writing Report 12. 11. 1918 When handed in at Local Office 18. 11. 1918 Port of Glasgow

Survey held at Paisley Date, First Survey 18/11/17 Last Survey 18. 11. 1918
on the S/S "Saint Enoch" (Number of Visits)

Built at Bowling By whom built Scott & Sons (265) Tons } Gross
Net

Made at Paisley By whom made Fishers & Co (219) when made 1918

Made at Glasgow By whom made Lindsay Burnet & Co 1646 when made 1918

Horse Power Owners J. & A. Gardner & Co Port belonging to Glasgow

Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ES, &c.—Description of Engines Compound Surface Condensing No. of Cylinders 2 No. of Cranks 2

Cylinders 16-34 Length of Stroke 24 Revs. per minute Dia. of Screw shaft as per rule 7.02 7.30 Material of Iron

Screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight

Propeller boss If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part

bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two

fitted, is the shaft lapped or protected between the liners Length of stern bush 2.6

Shaft as per rule 6.77 Dia. of Crank shaft journals as per rule 7.44 7.03 Dia. of Crank pin 7.44 Size of Crank webs 3 1/2 x 5 1/4 Dia. of thrust shaft under

as fitted 7.44 Dia. of screw 8-6 Pitch of Screw 10-9 No. of Blades 4 State whether moveable No Total surface 27 1/2

ed pumps 1 Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work

ge pumps 1 Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work

Donkey Engines 1 Sizes of Pumps 6 x 4 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps

Room 4-2 In Holds, &c. 2-2 and 2 at 2 1/4 Fore and Aft brakes.

Injection 1 sizes 3 Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size 2

Bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

Connections with the sea direct on the skin of the ship Are they Valves or Cocks Both

Fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line

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

Pipes are carried through the bunkers Port and Starboard Bilge in Hold & Fore How are they protected With Wood

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

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

Examination of completion of fitting of Sea Connections 16-9-18 of Stern Tube 16-9-18 Screw shaft and Propeller 16-9-18

Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

RS, &c.—(Letter for record) Manufacturers of Steel

Heating Surface of Boilers 1360 Is Forced Draft fitted No No. and Description of Boilers 1 Single ended marine

Pressure 130 1/2 Tested by hydraulic pressure to Date of test 19.9.18 No. of Certificate 14465

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

2 Spring loaded Area of each valve 6.939 Pressure to which they are adjusted 135 lbs Are they fitted with easing gear Yes

Distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates

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

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

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

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

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

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

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

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

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

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

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

cross wide water spaces Working pressure by rules Girders to Chamber tops: Material Depth and

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

pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

ed with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

Please Report 20.9.18

Lloyd's Register Foundation 002330-002339-0185

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No. Description
 Made at By whom made When made Where fixed
 Working pressure tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of Safety
 Valves No. of Safety Valves Area of each Pressure to which they are adjusted Date of adjustment
 If fitted with easing gear If steam from main boilers can enter the donkey boiler Dia. of donkey boiler Length
 Material of shell plates Thickness Range of tensile strength Descrip. of riveting long. seams
 Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Per centage of strength of joint Rivets
 Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of stays to do. Dia. of stays
 Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint
 Working pressure of furnace by rules Thickness of furnace crown plates Radius of do. Stayed by
 Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied:— 2 Piston Rod Bolts and Nuts. 2 Connecting Rod Bolts and Nuts.
 2 Main Bearing Bolts and Nuts. 1 Set of Coupling Bolts and Nuts. 1 Set of Feed and Bidge Pump Valves
 A quantity of assorted bolts and nuts. Iron of various sizes.

The foregoing is a correct description,

James Ld Manufacturer.

Dates of Survey while building During progress of work in shops -- 19 July 19 Sept 6 Oct 3-10 Nov 26 1918 Jan 28 April Aug 1 Sept 2-16-20-23-25 Oct 1-9-10-18-21
 During erection on board vessel -- 23-28-30 Nov 5-7-15-18.
 Total No. of visits 25

Is the approved plan of main boiler forwarded herewith yes.

Dates of Examination of principal parts—Cylinders 10. 10. 17 Slides 20 1-18 Covers 6-9-17 Pistons 6-9-17 Rods 28-1-18
 Connecting rods 28/1/18 Crank shaft -- shaft 1-8-18 Tunnel shafts -- Screw shaft 1-8-18 Propeller 1-8-18
 Stern tube 1-8-18 Steam pipes tested 25-10-18 Engine and boiler seatings 16-9-18 Engines holding down bolts 30-10-18
 Completion of pumping arrangements 4-11-18 Boilers fixed 30-10-18 Engines tried under steam 16-11-18
 Main boiler safety valves adjusted 4-11-18 Thickness of adjusting washers 11/32" - 5/16"
 Material of Crank shaft S Identification Mark on Do. 4526 Material of Thrust shaft S Identification Mark on Do. 4608
 Material of Tunnel shafts -- Identification Marks on Do. Material of Screw shafts 9 Identification Marks on Do. 219
 Material of Steam Pipes Copper Test pressure 260 lbs sq

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

The engines have been built under special survey in accordance with the Rules of the Society & have been securely fitted on board & tried under steam with satisfactory results.

The workmanship & materials are of good quality throughout the machinery, is eligible, in my opinion to have notation + L.M.C. 11-18

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 11-18.

The amount of Entry Fee .. £ 1 : 0 : 0 When applied for,
 Special .. £ 4 : 0 : 0 26-11-18
 Donkey Boiler Fee .. £ : : : When received,
 Travelling Expenses (if any) £ : : : 19/12/18

Committee's Minute GLASGOW 26 NOV 1918

Assigned + L.M.C. 11-18

Thos. A. Ferguson.

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Rpt. 5a.

Date of writing Report

No. in Survey Reg. Book.

on the

Master

Engines made at

Boilers made at

Registered Horse P

MULTITUBU

(Letter for record

Boilers One

No. of Certificate

safety valves to each

Are they fitted with

Smallest distance b

Material of shell p

Descrip. of riveting

Lap of plates w

rules 130

boiler No pla

Description of longit

plates: Material

Top Inders If sta

L. B. B.

024 Port

We reques

ott & Sons

Specially Surveyed u

We hereby en

For boilers up to

Horse Power, one

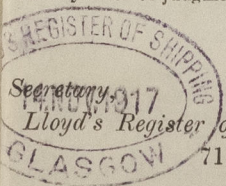
above 200. The No

than £2 2s.

MEM.—In excep

all cases where tra

to be defrayed by th



The Boile

its safe

Survey Fee ..

Travelling Expen

Committee's M

Assigned



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