

REPORT ON MACHINERY

No. 18164

Received at London Office WED 20 FEB 1924

Date of writing Report 15 Feb 1924 When handed in at Local Office 15 Feb 1924 Port of Greenock

No. in Survey held at Port Glasgow Date, First Survey 9 Jan 1924 Last Survey 9 Jan 1924

Reg. Book. on the S.S. GREYSTON. (Number of Visits One)

Master ✓ Built at Port Glasgow By whom built R. Duncan & Co. Ltd. (352) Tons { Gross 5008 Net 3177 When built 1924

Engines made at Glasgow By whom made D. Rowan & Co. Ltd. when made 1924

Boilers made at - By whom made - when made -

Registered Horse Power - Owners Wm. S. Miller & Co. Ltd. Port belonging to Glasgow

Nom. Horse Power as per Section 28 ✓ Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted ✓

ENGINES, &c.—Description of Engines

No. of Cylinders - No. of Cranks -

Dia. of Cylinders - Length of Stroke - Revs. per minute - Dia. of Screw shaft - Material of screw shaft -

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

Is the 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 -

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

When liners are fitted, is the shaft lapped or protected between the liners - Length of stern bush -

Dia. of Tunnel shaft - Dia. of Crank shaft journals - Dia. of Crank pin - Size of Crank webs - Dia. of thrust shaft under -

No. of blades - State whether moveable - Total surface -

No. of Feed pumps - Diameter of ditto - Stroke - Can one be overhauled while the other is at work -

No. of Bilge pumps - Diameter of ditto - Stroke - Can one be overhauled while the other is at work -

No. of Donkey Engines - Sizes of Pumps - No. and size of Suctions connected to both Bilge and Donkey pumps -

In Engine Room - In Holds, &c. -

No. of Bilge Injections - sizes - Connected to condenser, or to circulating pump - Is a separate Donkey Suction fitted in Engine room & size -

Are all the bilge suction pipes fitted with roses - Are the roses in Engine room always accessible - Are the sluices on Engine room bulkheads always accessible -

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 - Are the Discharge Pipes above or below the deep water line -

Are they 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 yes

What pipes are carried through the bunkers - How are they protected -

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

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

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

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

Total Heating Surface of Boilers - Is Forced Draft fitted - No. and Description of Boilers -

Working Pressure - Tested by hydraulic pressure to - Date of test - No. of Certificate -

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

Each boiler - Area of each valve - Pressure to which they are adjusted - Are they fitted with easing gear -

Smallest distance between boilers or uptakes and bunkers or woodwork - Mean dia. of boilers - Length - Material of shell plates -

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

Long. 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 -

Size 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 -

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

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

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

Area at smallest part - Area supported by each stay - 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 -

Pitch 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 -

Pitch 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 -

W282-0096



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - }
{ During erection on board vessel - - - }
Total No. of visits

9.1.24

1

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders	Slides	Covers	Pistons	Rods
Connecting rods	Crank shaft	Thrust shaft	Tunnel shafts	Screw shaft
Propeller				
Stern tube	Steam pipes tested	Engine and boiler seatings	9.1.24	Engines holding down bolts
Completion of pumping arrangements		Boilers fixed		Engines tried under steam
Completion of fitting sea connections	9.1.24	Stern tube	9.1.24	Screw shaft and propeller
				9.1.24
Main boiler safety valves adjusted		Thickness of adjusting washers		
Material of Crank shaft	Identification Mark on Do.	Material of Thrust shaft	Identification Mark on Do.	
Material of Tunnel shafts	Identification Marks on Do.	Material of Screw shafts	Identification Marks on Do.	
Material of Steam Pipes		Test pressure		
Is an installation fitted for burning oil fuel		Is the flash point of the oil to be used over 150°F.		
Have the requirements of Section 49 of the Rules been complied with				
Is this machinery duplicate of a previous case		If so, state name of vessel		

General Remarks (State quality of workmanship, opinions as to class, &c. This vessel has proceeded to Glasgow where the machinery will be fitted on board.

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

The amount of Entry Fee ... £	:	:	When applied for,
Special £	:	:	19
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any) £	:	:	19

S. J. Dorey
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 19 FEB 1924

Assigned See G.L. Rpt. No. 43347



© 2020

Lloyd's Register Foundation