

REPORT ON MACHINERY.

Received at London Office

-3 DEC 1924

Date of writing Report 15/10/24. 19 When handed in at Local Office 15/10/ 1924. Port of Greenock.

No. in Survey held at Port Glasgow Date, First Survey 8th October, 1924. Last Survey 14/ Oct 1924.
Reg. Book. (Number of Visits 3)

on the 82' LUCISTON
Master Built at Port Glasgow. By whom built Lithgows Ltd. Tons Gross 5017 Net 3174 When built 1924.

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

Boilers made at " By whom made " when made 1924

Registered Horse Power Owners W. J. Miller & Co. 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

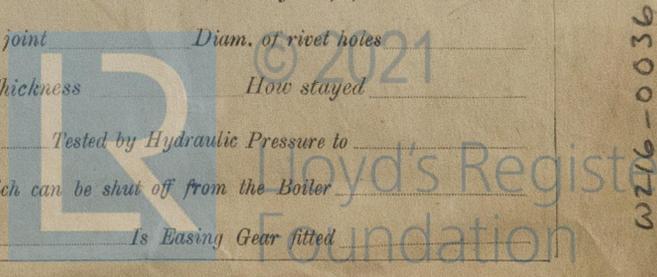
Description of Engines		No. of Cylinders	No. of Cranks	
Dia. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft as per rule as fitted	Material of screw shaft
Is the screw shaft fitted with a continuous liner the whole length of the stern tube		Is the after end of the liner made water tight		
in 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		
liners are fitted, is the shaft lapped or protected between the liners		Length of stern bush		
Dia. of Tunnel shaft as per rule as fitted	Dia. of Crank shaft journals as per rule as fitted	Dia. of Crank pin	Size of Crank webs	Dia. of thrust shaft under collars
Dia. of screw	Pitch of Screw	No. of Blades	State whether moceable	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		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 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	
Per centages of strength of longitudinal joint	rivets. plate	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 top bottom	Thickness of plates crown bottom	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



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Handwritten notes and faint text in the spare gear section.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building (1924) October 8-9-14. Total No. of visits 3

Is the approved plan of main boiler forwarded herewith

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 9/10/24. Engines holding down bolts Completion of pumping arrangements Boilers fixed Engines tried under steam Completion of fitting sea connections 9/10/24 Stern tube 9/10/24. Screw shaft and propeller 14/10/24. 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 now proceeded to Glasgow, where the machinery will be installed.

Handwritten note: 15/10/24

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

Table with columns for fees: The amount of Entry Fee, Special, Donkey Boiler Fee, Travelling Expenses (if any) and columns for 'When applied for' and 'When received'.

Signature of J. A. away, Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 2-DEC 1924

Assigned See G.S. Rpt. No. 44207

