

REPORT ON MACHINERY.

No. 84906

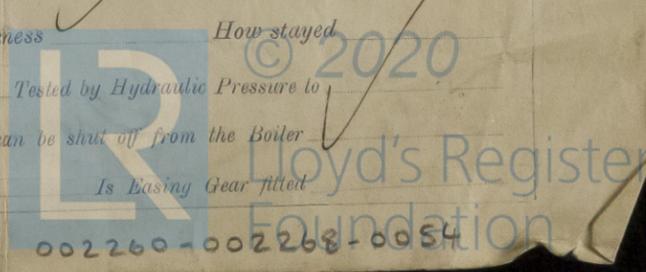
Received at London Office
LIVERPOOL, SAT. MAR. 3 1923

Date of writing Report 19 When handed in at Local Office 28 FEB 1923 Port of
 No. in Survey held at Lytham Date, First Survey 23rd Mar/23 Last Survey 23rd Feb 1923.
 Reg. Book. 80014 on the Vessel no. 6. S/S. MONKSTONE (Number of Visits 15)
 Master Built at Bideford By whom built Hansen S.B. Co. Tons { Gross 868
 Engines made at Lytham By whom made Lytham S.B. & Eng. Co. when made 1923
 Boilers made at 82 By whom made 82 when made 1922
 Registered Horse Power 107 Owners Hansen Shipping Co. Port belonging to London
 Nom. Horse Power as per Section 28 107 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Verhale Triple No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 15 + 25 + 41 Length of Stroke 27 Revs. per minute 105 Dia. of Screw shaft as per rule 7.74 8.49 Material of screw shaft M. steel
 Is 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
 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 3-3
 Dia. of Tunnel shaft as per rule 7.47 Dia. of Crank shaft journals as per rule 6.9 7.84 Dia. of Crank pin 8 1/2 Size of Crank webs 12 x 5 1/4 Dia. of thrust shaft under
 collars 8 Dia. of screw 10-6 Pitch of Screw 12-3 No. of Blades 4 State whether movable No Total surface 35 0'
 No. of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines Two Sizes of Pumps BAL. 9 x 9 1/2 Duplex 2 Acling No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Five 2 1/2 (Three in Eng room & Two in Stokel) Holds, &c. Two in No. 1 Hold. Two in No. 2 Hold. 2 1/2 dia.
 No. of Bilge Injections One size 4" Connected to condenser or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size Yes 2 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
 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
 What pipes are carried through the bunkers Hold suction How are they protected wire floor
 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 Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Messrs Beardmore & Co.
 Total Heating Surface of Boilers 1824 Is Forced Draft fitted No No. and Description of Boilers 2, cylindrical 2SB.
 Working Pressure 180 Tested by hydraulic pressure to 320 lbs Date of test 20.10. No. of Certificate 2213, 2214
 Can each boiler be worked separately Yes Area of fire grate in each boiler 30 0' No. and Description of Safety Valves to
 each boiler 2, spring loaded Area of each valve 3-14 0" Pressure to which they are adjusted 180 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or 4-6 Mean dia. of boilers 10-6 Length 10' Material of shell plates M.S.
 Thickness 29/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams D.R. lap
 long. seams triple butt Diameter of rivet holes in long. seams 1/16 Pitch of rivets 7/8 Lap of plates or width of butt straps 1 3/4
 Per centages of strength of longitudinal joint rivets 102 Working pressure of shell by rules 186 Size of manhole in shell 16 x 12
 plate 85.1
 Size of compensating ring 7 x 3 x 7/8 No. and Description of Furnaces in each boiler 2, Daighon, corrugated Material M.S. Outside diameter 3-4 1/2
 Length of plain part top Thickness of plates crown 3/2 Description of longitudinal joint weld No. of strengthening rings
 bottom Working pressure of furnace by the rules 187 Combustion chamber plates: Material M.S. Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 1/16
 Pitch of stays to ditto: Sides 9 x 8 Back 9 x 8/4 Top 9 x 8 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 184
 Material of stays M.S. Area at smallest part 1.79 Area supported by each stay 74.53 Working pressure by rules 217 End plates in steam space:
 Material M.S. Thickness 3/32 Pitch of stays 15 x 14 How are stays secured D. nub; h/washers Working pressure by rules 195 Material of stays M.S.
 Area at smallest part 3.67 Area supported by each stay 210 Working pressure by rules 184 Material of Front plates at bottom M.S.
 Thickness 3/32 Material of Lower back plate M.S. Thickness 3/16 + 1/16 greatest pitch of stays as per plan Working pressure of plate by rules 180
 Diameter of tubes 3 1/2 Pitch of tubes 4 3/4 x 1/8 Material of tube plates M.S. Thickness: Front 3/32 Back 3/4 Mean pitch of stays 9 1/2 x 9 1/4
 Pitch across wide water spaces 15 Working pressures by rules 236 Girders to Chamber tops: Material M.S. Depth and
 thickness of girder at centre 7 3/4 x 3/4, 2 Length as per rule 30 Distance apart 8 Number and pitch of stays in each 2, 9"
 Working pressure by rules 190 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
 7R
 Is Easing Gear fitted



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two connecting rod top end & two bottom end bolts, nuts
two main bearing bolts, 1 set of coupling bolts, 1 set of feed &
bilge pump valves, 1 set of piston springs, a quantity of
assorted bolts & nuts, & iron of various sizes.

The foregoing is a correct description,

THE LYTHAM SHIPBUILDING AND
ENGINEERING COMPANY, LIMITED.

W. Lindsey

Manufacturer.

Dates of Survey while building
During progress of work in shops -- 1921. Mar. 23. April 7. May 3. 24. June 1. 27. - 1922 Aug. 18. Oct. 6. 12. 20. Nov. 3. 20. Dec. 6. - 1923 Jan. 25. Feb. 23.
During erection on board vessel -- 1923 Feb. 24. Mar. 27. Apr. 16, 20, 25. May 2, 4. June 20.
Total No. of visits 15. + 8 + 1

Is the approved plan of main boiler forwarded herewith *in office.*

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 3.11.22 Slides 25.1.23 Covers 25.1.23 Pistons 25.1.23 Rods 25.1.23
Connecting rods 25.1.23 Crank shaft 6.12.22 Thrust shaft 3.11.22 Tunnel shafts ✓ Screw shaft 25.1.23 Propeller 25.1.23
Stern tube 25.1.23 Steam pipes tested 4.5.23 Engine and boiler seatings 4.4.23 Engines holding down bolts 28.4.23
Completion of pumping arrangements 20.6.23 Boilers fixed 4.4.23 Engines tried under steam 20.6.23
Completion of fitting sea connections 20.4.23 Stern tube 24.2.23 Screw shaft and propeller 20.4.23
Main boiler safety valves adjusted 20.6.23 Thickness of adjusting washers Bol. 1/4 - 1/4 Seld 1/4 - 1/4
Material of Crank shaft M.S. Identification Mark on Do. 1601 Material of Thrust shaft M.S. Identification Mark on Do. 1601
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts M.S. Identification Marks on Do. 1601
Material of Steam Pipes *Solen drawn copper* Test pressure 360 lbs

Is an installation fitted for burning oil fuel *No* 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 *Yes* If so, state name of vessel *S.S. 'Stevenstone', Monkstone, Sturdee Rose.*

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery of this vessel has been built under Special Survey. The materials & workmanship are good. After erection in the shop, the engines & boilers have been forwarded to Ridesford to be fitted on board, and will then be eligible for record of + L.M.C. with date.*

The boilers of this vessel were originally intended for the S.S. 'Sturdee Rose'.

These engine & boiler have now been fitted & secured on board. The machinery has been tried under working conditions & found satisfactory.

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 ... £ 3 : 0
Special 1/2 ship aft £ 21 : 0
Donkey Boiler Fee 1/2 side aft £ 5 : 7
Travelling Expenses (if any) £ 6 : 1
4.6.0

When applied for, 28 FEB 1923
When received, *John W. Curryne*
LIVERPOOL 6 JUL 1923

S. Townend
Engineer Surveyor to Lloyd's Register of Shipping.
Wm. A. Ferguson
J. W. Webb

Committee's Minute
Assigned *Transmit to London*

FRI. JUL 20 1923
Thril

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