

REPORT ON MACHINERY.

No. 73026

Received at London Office

WED APR 28 1920

Date of writing Report 10 When handed in at Local Office 10 Port of Newcastle on Tyne.
No. in Survey held at South Shields Date, First Survey 13 June 1919 Last Survey 12 April 1920
Reg. Book. on the S.S. "Ronda" (Number of Visits 30)
Master Built at South Shields By whom built J. Readhead & Sons Tons Gross 4943 Net 3030
Engines made at South Shields By whom made J. Readhead & Sons when made 1920.
Boilers made at South Shields By whom made J. Readhead & Sons when made 1920.
Registered Horse Power Owners (E. J. Bowring & Co.) Port belonging to London
Nom. Horse Power as per Section 28 433. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 26½" - 44" - 73" Length of Stroke 48" Revs. per minute 140 Dia. of Screw shaft as per rule 14.71 Material of Screw shaft as fitted 15¼" (screw shaft)
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 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 liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 5'-3"
Dia. of Tunnel shaft as per rule 13.21 Dia. of Crank shaft journals as per rule 13.87 Dia. of Crank pin 14½" Size of Crank webs 9½" x 19" Dia. of thrust shaft under collars 14½" Dia. of screw 17'-9" Pitch of Screw 17'-0" No. of Blades 4 State whether moveable No Total surface 96 ft.
No. of Feed pumps Two Diameter of ditto 4½" Stroke 24" Can one be overhauled while the other is at work Yes.
No. of Bilge pumps Two Diameter of ditto 4½" Stroke 24" Can one be overhauled while the other is at work Yes.
No. of Donkey Engines Four Sizes of Pumps (3) 10" x 10" x 10" (one) 10" x 10" x 10" (one) 10" x 10" x 10" (one) 10" x 10" x 10" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room Four 3½" dia In Holds, &c. Eight 3½" dia and one 2½" dia
No. of Bilge Injections One size 8" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 3½" dia
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 None How are they protected
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 Yes Is it fitted with a watertight door Yes worked from Top platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel J. Spencer & Sons Ltd. 35B
Total Heating Surface of Boilers 7110 ft. Is Forced Draft fitted No No. and Description of Boilers 3 Simple Ended
Working Pressure 180 lbs Tested by hydraulic pressure to 360 Date of test 30/12/19 No. of Certificate 9347.
Can each boiler be worked separately Yes Area of fire grate in each boiler 60.15 ft. No. and Description of Safety Valves to each boiler Two spring loaded Area of each valve 7.06 ft. Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 7 feet Mean dia. of boilers 15'-7¼" Length 11'-0" Material of shell plates Steel
Thickness 1½" Range of tensile strength 28/32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D R Lap long. seams TR D B Diameter of rivet holes in long. seams 15/16" Pitch of rivets 9½" Lap of plates or width of butt straps 1'-8"
Per centages of strength of longitudinal joint rivets 85.9% plate 86.5% Working pressure of shell by rules 181.34 Size of manhole in shell 16" x 12"
Size of compensating ring 7" x 1¼" No. and Description of Furnaces in each boiler 3 Dugblon Material Steel Outside diameter 4'-0"
Length of plain part top Thickness of plates crown 9/16" Description of longitudinal joint Welded No. of strengthening rings
bottom Thickness of plates bottom 7/8" Working pressure of furnace by the rules 183.6 Combustion chamber plates: Material Steel Thickness: Sides 23/32" Back 1/16" Top 23/32" Bottom 7/8"
Pitch of stays to ditto: Sides 10" x 9¼" Back 10" x 9" Top 10½" x 9½" If stays are fitted with nuts or riveted heads No Working pressure by rules 192.74
Material of stays Steel Area at smallest part 2.31 Area supported by each stay 90° Working pressure by rules 2054 End plates in steam space:
Material Steel Thickness 15/16" Pitch of stays 21½" x 20½" How are stays secured DN + W Working pressure by rules 197.7 Material of stays Steel
Area at smallest part 8.48 Area supported by each stay 445.8 Working pressure by rules 197.7 Material of Front plates at bottom Steel
Thickness 7/8" Material of Lower back plate Steel Thickness 7/8" Greatest pitch of stays 14" x 9" Working pressure of plate by rules 191.4
Diameter of tubes 3½" Pitch of tubes 4½" x 4½" Material of tube plates Steel Thickness: Front 5/8" Back 3/4" Mean pitch of stays 9½"
Pitch across wide water spaces 14" Working pressures by rules 257 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8½" x 1¼" Length as per rule 2'-6½" Distance apart 10¼" Number and pitch of stays in each Two 9½"
Working pressure by rules 1934 Steam dome: description of joint to shell None % 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 None 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

003290-003297-0220

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

Yes

SPARE GEAR. State the articles supplied:—

Propeller, Propeller shaft, One set of propeller keys, 6 Boiler tubes (plain) One boiler tube (stay) 6 Condenser tubes, 100 Condenser ferrules, One set of Feed Pump Valves, One set of Air Pump Valves, One set of Feed Check Valves, One set of Bilge Pump Valves, 6 Shaft Coupling bolts, 2 Top end Connecting Rod bolts, 2 Bottom end Connecting Rod bolts, 2 Main Bearing bolts, 6 Junk Ring bolts, One set of Turbars for one Boiler, 6 Winch Condenser Tubes, 50 Winch Condenser Ferrules, 2 Balls Condenser packing, 3 Hough's Springs for Check Valves, 2 Safety Valve Springs.

The foregoing is a correct description,

FOR JOHN READHEAD & SONS, LIMITED.

W. P. Dewy Engineering Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1919 Jun. 13. 16. Jul. 8. Aug. 13. Sep. 3. 12. 16. Oct. 7. 8. Nov. 7. Dec. 5. 30. 1920 Jan. 7. 20. Feb. 17. 19. 20. 23. 24. 27. Mar. 4. 9. During erection on board vessel -- 11. 12. 23. 26. 29. Apr. 1. 7. 12. Total No. of visits 30

Is the approved plan of main boiler forwarded herewith

Yes

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 5/6/19 + 13/3/19 Slides 8/10/19 Covers 16/9/19 Pistons 16/9/19 Rods 8/10/19 Connecting rods 8/10/19 Crank shaft 8/10/19 Thrust shaft 7/11/19 Tunnel shafts 20/2/20 Screw shaft 20/1/20 Propeller 24/2/20 Stern tube 12/2/20 Steam pipes tested 12/3/20 Engine and boiler seatings 20/2/20 Engines holding down bolts 23/3/20 Completion of pumping arrangements 4/3/20 Boilers fixed 23/3/20 Engines tried under steam 23/3/20 Completion of fitting sea connections 19/2/20 Stern tube 17/2/20 Screw shaft and propeller 27/2/20 Main boiler safety valves adjusted 23/3/20 Thickness of adjusting washers Port Boiler 7/16 3/16 Center Boiler 7/16 3/16 Star Boiler 5/16 3/16 Material of Crank shaft Steel Identification Mark on Do. LLOYD'S No. 3021. D MR Material of Thrust shaft Steel Identification Mark on Do. LLOYD'S No. 3021. D MR Material of Tunnel shafts Scrap Iron Identification Marks on Do. LLOYD'S No. 1902. 20. 1. 20. W. L. H. Material of Screw shafts Scrap Iron Identification Marks on Do. LLOYD'S No. 1902. 20. 2. 20. W. L. H. Material of Steam Pipes 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.

Yes

Have the requirements of Section 49 of the Rules been complied with

Yes

Is this machinery duplicate of a previous case

No

If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been constructed under special survey the material and workmanship are of good quality, it has been securely fitted on board and satisfactorily tried under steam at moorings for 2 1/2 hours.

The machinery of this vessel is now in my opinion eligible for record of + L.M.C. 4, 20. (in red) in the Register Book.

It is submitted that this vessel is eligible for

THE RECORD

+ L.M.C. 4, 20

W. L. H. 30/4/20

W. L. H.

W. L. H.

The amount of Entry Fee ... £ 3 : : Special ... £ 41 : 13 : Donkey Boiler Fee ... £ : : Travelling Expenses (if any) £ : :

When applied for,

27 APR 1920

When received,

1/5/1920

W. L. Hall
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. MAY. 4 1920

Assigned

MACHINERY CERT.
WRITTEN.

+ L.M.C. 4, 20



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Foundation