

REPORT ON MACHINERY.

Received at London Office

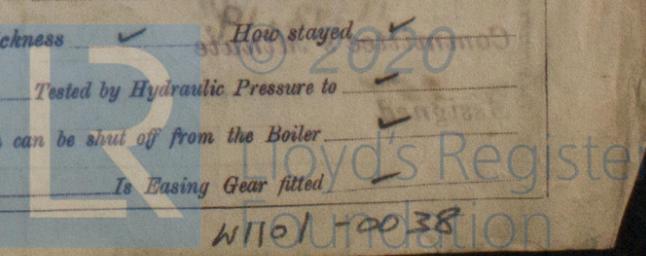
TUE 4 JAN 1921

Date of writing Report 19 When handed in at Local Office 3/12/1920 Port of Newcastle on Tyne
 No. in Survey held at Newcastle on Tyne Date, First Survey April 8th 1919 Last Survey December 20th 1920
 Reg. Book. on the S.S. "Monte Nevoso" (Number of Visits 98)
 Master Built at Newcastle By whom built Northumberland S.B. Co. Ltd Tons Gross 5889
 Engines made at Newcastle By whom made Wallend Shipway & Engineering Co. Ltd when made 1920 Net 3746
 Boilers made at -do- By whom made -do- when made 1920 When built 1920
 Registered Horse Power Owners Consorzio Veneziano Port belonging to Venice
 Nom. Horse Power as per Section 28 571.8 572 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 27"-45"-75" Length of Stroke 51" Revs. per minute 69 Dia. of Screw shaft 15 1/2" Material of screw shaft 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 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'-6"
 Dia. of Tunnel shaft as per rule 13.68 Dia. of Crank shaft journals as per rule 14.37 Dia. of Crank pin 14 5/8" Size of Crank webs 22 5/8" x 9 5/8" Dia. of thrust shaft under
 collars 14 5/8" Dia. of screw 19'-0" Pitch of Screw 17'-3" No. of Blades 4 State whether moveable No Total surface 113.5 sq ft
 No. of Feed pumps 2 Weirs Diameter of ditto 8" Stroke 21" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 4 3/4" Stroke 26" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 Sizes of Pumps 10" x 12" x 10" - 7 1/2" x 5" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room & stokehold 4 - 3 1/2" In Holds, &c. nos: 1, 2, 3, 4, each 2 - 3 1/2"
 Deep Tank 2 - 3 1/2" Tunnel 1 - 2 1/2"
 No. of Bilge Injections 1 sizes 9" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes, 3 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 None
 Are all connections with the sea direct on the skin of the ship No 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 upper platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel John Spencer
 Total Heating Surface of Boilers 8556 sq ft Is Forced Draft fitted Yes No. and Description of Boilers 3 Single Ended
 Working Pressure 180 lbs Tested by hydraulic pressure to 320 lbs Date of test 16.11.20 No. of Certificate 9483
 Can each boiler be worked separately Yes Area of fire grate in each boiler 64 sq ft No. and Description of Safety Valves to
 each boiler 2 Spring Loaded Area of each valve 11.045 sq in 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 2'-0" Mean dia. of boilers 15'-6 3/4" Length 12'-0" Material of shell plates steel
 Thickness 1 1/32" Range of tensile strength 30-34 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D.R.-L.T.
 long. seams D.B.S. Riveted Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 8 15/16" Lap of plates or width of butt straps 19 3/8"
 Per centages of strength of longitudinal joint plates 92.5 Working pressure of shell by rules 188 Size of manhole in shell 16" x 12"
 Size of compensating ring McNeill's No. and Description of Furnaces in each boiler 3 Marisons Material steel Outside diameter 50 3/8"
 Length of plain part top 5" Thickness of plates bottom 1 1/32" Description of longitudinal joint Welded No. of strengthening rings ✓
 Working pressure of furnace by the rules 188 lbs Combustion chamber plates Material steel Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 7/8"
 Pitch of stays to ditto: Sides 9" x 9" Back 9" x 8 5/8" Top 8 1/2" x 8 1/4" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 182 1/2 lbs
 Material of stays steel Area at smallest part 2.030 sq in Area supported by each stay 810 sq in Working pressure by rules 226 lbs End plates in steam space:
 Material steel Thickness 1 5/32" Pitch of stays 20" x 15 3/4" How are stays secured D.N. Working pressure by rules 184 Material of stays steel
 Area at smallest part 6.10 sq in Area supported by each stay 3150 sq in Working pressure by rules 200 lbs Material of Front plates at bottom steel
 Thickness 1" Material of Lower back plate steel Thickness 29/32" Greatest pitch of stays 14" Working pressure of plate by rules 205 1/2 lbs
 Diameter of tubes 2 1/2" Pitch of tubes 3 3/4" x 3 3/4" Material of tube plates steel Thickness: Front 1" Back 13/16" Mean pitch of stays 9 3/8"
 Pitch across wide water spaces 13 1/4" Working pressures by rules 204 lbs Girders to Chamber tops: Material steel Depth and
 thickness of girder at centre 8 7/8" x 1 1/2" Length as per rule 33 1/32" Distance apart 8 1/2" Number and pitch of stays in each 3 - 8 1/4"
 Working pressure by rules 181 lbs 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 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 ✓



IS A DONKEY BOILER FITTED?

No.

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 1 C.P. propeller. 2 top end & 2 bottom end bolts & nuts. 2 Main bearing bolts & nuts. 6 Coupling bolts & nuts. Set of feed pump valves. 2 bilge pump valves. 2 Cut of iron plate. 1 cut. of iron bars. 100 assorted bolts & nuts. 50 Condenser ferrules. 1 doz. gauge glasses. 4 doz. india rubber washers. Set of feed donkey valves. Set of ballast donkey valves. 12 Piston bolts. 100 plain forebars. 2 plain forebar patterns.

The foregoing is a correct description,

FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.

J. C. Henderson.

Manufacturer.

1919. Dates of Survey while building: During progress of work in shops - - - Apr. 8, 15, 25, May 19, 21, 24, 29, June 4, July 4, 7, 8, 11, 18, 23, 29, Aug. 1, 15, 18, 19, 21, 29, Sept. 3, 5, 15, 22, 23, 29, Nov. 3, 4, 11, 25, Dec. 2, 4, 7, 9, 14, Jan. 2, 9, 20, 24, 28, Feb. 10, 12, 13, 19, 20, 24, 26, Mar. 2, 8, 10, 11, 15, 16, 14, 18, 19, 22, 23, Apr. 8, 15, 29, May 10, 24, June 30, July 6, 8, Sept. 2, 9, 23, 28, Oct. 5, 6, 22, 28, Nov. 4, 10, 15, 16, 18, 23, 25, 26, Dec. 11, 18, 20. Total No. of visits - - - 98.

Is the approved plan of main boiler forwarded herewith forwarded with 828 report.

Dates of Examination of principal parts—Cylinders 23/3/20 Slides 29/4/20 Covers 8/10/19 Pistons 4/12/19 Rods 10/10/19

Connecting rods 10/10/19 Crank shaft 9/1/20 Thrust shaft 23/10/19 Tunnel shafts 19/3/20 Screw shaft 9/12/19 Propeller 6/10/20

Stern tube 6/10/20 Steam pipes tested 25/5 + 14/6/20 Engine and boiler seatings 17/12/20 Engines holding down bolts 17/12/20

Completion of pumping arrangements 18/12/20 Boilers fixed 17/12/20 Engines tried under steam 18/12/20

Completion of fitting sea connections 10/11/20 Stern tube 10/11/20 Screw shaft and propeller 18/12/20

Main boiler safety valves adjusted 18/12/20 Thickness of adjusting washers P.B.IV - P. 5/16 S. 3/8 C.B.IV - P. 3/8 S. 7/16 S.B.IV - P. 5/16 S. 5/16

Material of Crank shaft Steel Identification Mark on Do. J.F. 1/20 Material of Thrust shaft Steel Identification Mark on Do. J.F. 10/19

Material of Tunnel shafts Identification Marks on Do. J.F. 3/20 Material of Screw shafts Identification Marks on Do. J.F. 12/19

Material of Steam Pipes W. Iron Test pressure 540 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 No. 828, 829.

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

The engines & boilers of this vessel were built under special survey, & the materials & workmanship are good.

After erecting in place on board, they were examined under steam & found to work satisfactorily.

The machinery throughout is now in good & efficient condition and in my opinion is eligible to have the record of 12.20 marked in the Society's Register Book.

It is submitted that this vessel is eligible for TEN RECORD. + L.M.C. 12.20 FD

Bell 6/1/21

C. N. Stuart Engineer, Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee £ 3 0 0 When applied for. Special £ 48 12 2 - JAN 1921 Donkey Boiler Fee £ : : When received. Travelling Expenses (if any) £ : : 15-1-21

Committee's Minute

Assigned

FRI. JAN. 7 1921 + L.M.C. 12.20 J.D.

CERTIFICATE WRITTEN



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NEWCASTLE-ON-TYNE

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