

Rpt. 4.

REPORT ON MACHINERY.

No. 36255

TUES. 4 AUG 1925

Date of writing Report 27/7/1925 When handed in at Local Office 31-7-1925 Port of Hull.
No. in Survey held at Hull. Date, First Survey 8/10/24 Last Survey 17-7-1925
Reg. Book. on the S.S. "TEANO" (Number of Visits 31) Tons Gross 762 Net 299
Master Built at Hull By whom built Barclay S.B. & Co. Ltd. When built 1925
Engines made at Hull By whom made Barclay S.B. & Co. Ltd. when made 1925
Boilers made at Hull By whom made Barclay S.B. & Co. Ltd. when made 1925
Registered Horse Power Owners Ellerman Wilson Line Ltd Port belonging to Hull
Nom. Horse Power as per Section 28 134 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 13 3/4" 23 1/2" 41" Length of Stroke 30 Revs. per minute 9.3 Material of Shaft Steel
Is the screw shaft fitted with a continuous liner the whole length of the stern tube No 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 Yes 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 Yes If two
liners are fitted, is the shaft lapped or protected between the liners Yes Adversal flange fitted Length of stern bush 3' 6"
Dia. of Tunnel shaft as per rule 4.8" as fitted 8" Dia. of Crank shaft journals as per rule 8.24" as fitted 8 1/2" Dia. of Crank pin 8 5/8" Size of Crank webs 16 1/2" x 5 1/2" Dia. of thrust shaft under
collars 8 1/2" Dia. of screw 11' 6" Pitch of Screw 10' 6" No. of Blades 4 State whether moveable No Total surface 40 sq. ft.
No. of Feed pumps 2 Diameter of ditto 2 1/4" Stroke 18" Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 2 3/4" Stroke 18" Can one be overhauled while the other is at work Yes
No. of Donkey Engines Two Sizes of Pumps 6 1/2" x 4 1/4" x 6" General. No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 2 @ 2 1/2" Stroke 18" In Holds, &c. F.P.T. 1 @ 2 1/2" Stroke 18" No. 2 Hold 3 @ 2 1/2" Cft hold, 1 @ 2 1/2" A.P.T. 1 @ 2 1/2" Tunnel well 1 @ 2 1/2"
No. of Bilge Injections One size 4" Connected to condenser, or to circulating pump CP. Is a separate Donkey Suction fitted in Engine room & size Yes 3"
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 Yes
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 below.
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 Forward Suctions How are they protected Wood casings.
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 deck.

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Steel B. & S. Ltd. Birmingham I.R.S. Co.
Total Heating Surface of Boilers 2400 sq. ft. Is Forced Draft fitted No No. and Description of Boilers 2 Single ended
Working Pressure 225 Tested by hydraulic pressure to 388 Date of test 2.1.25 No. of Certificate 3545
Can each boiler be worked separately Yes Area of fire grate in each boiler 37 sq. ft. No. and Description of Safety Valves to
each boiler 1 Pair Cockburn High lift type Area of each valve 2.4 sq. in. Pressure to which they are adjusted 225 lb. Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers on deck 1' 5" Mean dia. of boilers 11' 6" Length 10' 6" Material of shell plates Steel
Thickness 1 5/32" Range of tensile strength 38.5 Are the shell plates welded or flanged Yes Descrip. of riveting: cir. seams BR
long. seams T.R. BR. Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 8 3/8" Lap of plates or width of butt straps 17 9/8"
Per centages of strength of longitudinal joint rivets 86.4 Working pressure of shell by rules 225 Size of manhole in shell 16 x 12
plate 85.8 Size of compensating ring 40 x 30 x 1 5/32 No. and Description of Furnaces in each boiler 2 Brightons Material Steel Outside diameter 44.75.
Length of plain part top 23 1/2" Thickness of plates crown 23 1/2" Description of longitudinal joint welded. No. of strengthening rings
bottom 32 Working pressure of furnace by the rules 236 Combustion chamber plates: Material Steel Thickness: Sides 2 5/32" Back 3/4" Top 2 1/32" Bottom 2 5/32"
Pitch of stays to ditto: Sides 9 1/4" x 7 1/4" Back 9 5/8" x 8 1/4" Top 8 5/8" x 7 3/4" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 238 lb.
Material of stays Steel Area at smallest part 2.03 Area supported by each stay 79.3 sq. in. Working pressure by rules 228 End plates in steam space:
Material Steel Thickness 1 3/32" Pitch of stays 16 x 14 3/4" How are stays secured BR. Working pressure by rules 234 Material of stays Steel
Area at smallest part 5.05 Area supported by each stay 336 sq. in. Working pressure by rules 233 Material of Front plates at bottom. Steel
Thickness 3 1/32" Material of Lower back plate Steel Thickness 2 9/32" Greatest pitch of stays 14 1/4" x 8 1/4" Working pressure of plate by rules 249.
Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 3 1/32" Back 7/8" Mean pitch of stays 9"
Pitch across wide water spaces 13 3/8" Working pressures by rules 224 Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 7 1/2" x 15 1/8" Length as per rule 32 7/8" Distance apart 8 1/8" Number and pitch of stays in each 1 @ 7 3/4"
Working pressure by rules 229 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

UPERHEATER. 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

1570-0251
W264-0251

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—2 Top end bolts & nuts. 2 Bottom end bolts & nuts. 2 main bearing bolts & nuts. Set of coupling bolts & nuts. 2 ^{insulating} air feed & large pump valves, and spare valves for donkey pumps. 3 Condenser tubes. 6 pump ring studs 6 Boiler tubes main & donkey check valves. 1 safety valve spring. 1 Propeller.

The foregoing is a correct description,

SHIPBUILDING & ENGINEERING CO. LIMITED

Manufacturer.

Dates of Survey while building

During progress of work in shops --
During erection on board vessel --
Total No. of visits

1924. Oct. 8. 15. 24. 29. Nov. 13. 20. Dec. 5. 15. 22. 29. 30. 1925 Jan. 2. 14. 16. 29. 29. 4. 22. 24. 19. 24. 26. Mar. 6. 24. Apr. 24. 30. May 14. 18. Jun. 3. 10. 16. 17. 31.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders H.P. 2.1.25 I.P. 14.1.25 L.P. 14.1.25 Slides Covers H.P. 2.1.25 I.P. 14.1.25 L.P. 14.1.25 Pistons 26.1.25 Rods 5.12.25 Connecting rods 26.1.25 Crank shaft 29.12.25 Thrust shaft 5.12.25 Tunnel shafts 13.11.25 Screw shaft 22.12.25 Propeller 22.12.25 Stern tube 22.12.25 Steam pipes tested 19/2/25. Engine and boiler seatings 29.1.25 Engines holding down bolts 6.2.25 Completion of pumping arrangements 16.7.25. Boilers fixed 6.2.25 Engines tried under steam 17.7.25. Completion of fitting sea connections 16.7.25 Stern tube 16.7.25 Screw shaft and propeller 16.7.25. Main boiler safety valves adjusted 17.7.25 Thickness of adjusting washers P. 3/8 - 3/8. S. 3/8 - 3/8. Material of Crank shaft Steel Identification Mark on Do. 134 Material of Thrust shaft Steel Identification Mark on Do. 134 Material of Tunnel shafts do. Identification Marks on Do. " " Material of Screw shafts do. Identification Marks on Do. " " Material of Steam Pipes Solid drawn steel Test pressure 675 lbs per sq. in. 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.)

The machinery of this vessel has been built under special survey, in accordance with the approved plans & the Society's Rules. The materials & workmanship are good. The safety valves adjusted as above and the machinery tried under working conditions. It is eligible in our opinion to have record in the Register Book of 4.11.25, O.G.

It is submitted that this vessel is eligible for THE RECORD.

+ LMC 7.25 O.G.

4/8/25

The amount of Entry Fee ... £ 3 : 0 :
Special ... £ 34 : 5 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :

When applied for, 31/7/25

When received, 25/8/25

Committee's Minute

Assigned

FRI. 7 AUG 1925

+ L.M.C. 7.25 O.G.

John Mackintosh, P. Fitzgerald.
Engineer Surveyor to Lloyd's Register of Shipping.

CERTIFICATE WRITTEN



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