

REPORT ON MACHINERY.

No. 803

Received at London Office

SAI JAN. 21 1922

Date of writing Report 24 Nov. 1921 When handed in at Local Office Nov. 24 1921 Port of Adelaide S.A.
 No. in Survey held at Osborne Pt. Adelaide Date, First Survey 19 Nov. 1919 Last Survey Nov. 22 1921
 Reg. Book. on the S-Single screw Steamer "EURIMBLA" YARD No. 1 Tons { Gross 3350.64
 Net 1915.89
 Master POOLE & STEELE Built at PORT ADELAIDE By whom built POOLE & STEELE When built 1921-11/10
 Engines made at PORT ADELAIDE By whom made POOLE & STEELE when made 1921
 Boilers made at RENEWAL SCOTLAND By whom made Babcock & Wilcox Ltd. when made 1920
 Registered Horse Power 516 Owners Commonwealth Port Trust Port belonging to Sydney N.S.W.
 Nom. Horse Power as per Section 28 516 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Vertical Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 26" 41" 68" Length of Stroke 45" Revs. per minute 75 Dia. of Screw shaft 13.82 Material of 11.5/16
 as fitted 14.5 screw shaft
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Two Lengths 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 Light an Cement two
 liners are fitted, is the shaft lapped or protected between the liners and forced with Red Lead Length of stern bush 5 ft. 1"
 Dia. of Tunnel shaft 12.5 as per rule 12.5 Dia. of Crank shaft journals 13.13 as per rule 13.13 Dia. of Crank pin 13.25 Size of Crank webs 8 3/4 x 27 1/2 Dia. of thrust shaft under
 collars 13.25 Dia. of screw 16 1/4 Pitch of Screw 16 1/4 9 in No. of Blades 4 State whether moveable No Total surface 85 ft.
 No. of Feed pumps 2 Diameter of ditto 7" Stroke 24" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 24" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 4 Sizes of Pumps 10 1/2 x 4 x 21 1/2 x 2 1/2 x 21 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Three 3 1/2" Stokehold Two 3 1/2" In Holds, &c. Forepeak one 3 1/2" No. 1 Hold two 3 1/2"
No. 2 Hold two 3 1/2" No. 3 Hold two 3 1/2" No. 4 Hold two 3 1/2" Tunnel well one 2 1/2"
 No. of Bilge Injections 1 sizes 8" Connected to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 4 1/2 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
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves except Forepeak Ash & Blow
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates No Are the Discharge Pipes above or below the deep water line Main
 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 No. 1 & 2 Holds & Forepeak Bilge How are they protected Under Liner boards
 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 Engine Room middle Plate

BOILERS, &c.—(Letter for record S) Manufacturers of Steel D. Colville & Sons Ltd. Scotland
 Total Heating Surface of Boilers 5289 Is Full Draft fitted Yes No. and Description of Boilers 3 Babcock & Wilcox water tube
 Working Pressure 185 lbs Tested by hydraulic pressure to 360 lbs Date of test 18.4.21 No. of Certificate
 Can each boiler be worked separately Yes Area of fire grate in each boiler 84.5 ft. No. and Description of Safety Valves to
 each boiler 2 Spring Loaded Area of each valve 9.62 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 ft. Mean dia. of Drums 4.0 Length 13.33 Material of shell plates 11.5/16
 Thickness 1 1/2 Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams 2 A L A P
 long. seams 7 A S H A P Diameter of rivet holes in long. seams 3 1/8 Pitch of rivets 3 1/4 Lap of plates or width of butt straps 7"
 Per centages of strength of longitudinal joint 75 Working pressure of shell by rules 210 lbs Size of manhole in shell 11 x 15"
 Size of compensating ring 28 1/2 x 22 x 7 1/2 No. and Description of Furnaces in each boiler Material Outside diameter
 Length of plain part top Thickness of plates 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 Drum space:
 Material Steel Thickness 3/16 Pitch of stays None 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 HEADERS Steel Thickness 1 1/4 Greatest pitch of stays Working pressure of plate by rules
 Diameter of tubes 1 3/16 Pitch of tubes 2 5/8 x 3 3/4 Material of tube plates Steel 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 MOOD DRUMS 3 1/4 Material Steel Description of longitudinal joint Welded 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

002876-002892-0149

IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Connecting Rod top and Bolts (2 off), Bottom end Bolts & Nuts (2 off), Crank & Tunnel Shaft Coupling Bolts & Nuts (3 off each), Main bearing Bolts & Nuts (2 off), One set of Suction & Discharge Valves, One set of Piston rings, One set of Bucket rings for each of the following pumps: Bilge pumps, Feed pumps, General Service, Donkey Feed and Ballast Pumps, One spare Propeller, one set of Piston rings for H.P. & L.P. Pistons 1 H.P. Piston Valve, one set of Air Pump Valves, 42 Spare Boiler tubes, One set of Special Fire bricks, Two main & Donkey Check valves, 12 Handhole fittings for Headers, Two Safety Valve Springs, 1 set of Spares for Automatic feed regulator 1 set of Firebars.

The foregoing is a correct description,

For and on behalf of

POOLE & STEEL, LTD.

Arthur H. Poole

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1919 Nov 2, Dec 4, Feb 3, 1920 Jan 4, Feb 11, March 1, April 2, May 2, June 4, July 3, Aug 4, Sept 5, Oct 4, Nov 2, Dec 4
During erection on board vessel -- 1920 Jan 4, Feb 11, March 2, April 3, May 3, June 3, July 3, Aug 3, Oct 4, Nov 5, Dec 4
Total No. of visits From Nov 1919 to 23-11-21. Total visits 69

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 28.2.21. Slides 10.3.21. Covers 10.3.20. Pistons 12.6.21. Rods 2.6.21.

Connecting rods 11.3.21. Crank shaft 24.8.20. Thrust shaft 3.8.21. Tunnel shafts 2.9.20. Screw shaft 12.4.21. Propeller 15.4.21.

Stern tube 22.2.21. Steam pipes tested 5.8.10. 11/21. Engine and boiler seatings 14.2.21. Engines holding down bolts 12.9.21.

Completion of pumping arrangements 30.4.21. Boilers fixed 28.10.21. Engines tried under steam 4.11/21 & 18.11/21.

Completion of fitting sea connections 12.5.21. Stern tube 20.2.21. Screw shaft and propeller 15.4.21.

Main boiler safety valves adjusted 16.11.21. Thickness of adjusting washers Pth Boiler 8.44. 7.4. 6.4. 5.4. 4.4. 3.4. 2.4. 1.4. 0.4.

Material of Crank shaft M. Steel Identification Mark on Do. 1.4. 2.4. 3.4. 4.4. 5.4. 6.4. 7.4. 8.4. 9.4. 10.4. 11.4. 12.4. 13.4. 14.4. 15.4. 16.4. 17.4. 18.4. 19.4. 20.4. 21.4. 22.4. 23.4. 24.4. 25.4. 26.4. 27.4. 28.4. 29.4. 30.4. 31.4. 32.4. 33.4. 34.4. 35.4. 36.4. 37.4. 38.4. 39.4. 40.4. 41.4. 42.4. 43.4. 44.4. 45.4. 46.4. 47.4. 48.4. 49.4. 50.4. 51.4. 52.4. 53.4. 54.4. 55.4. 56.4. 57.4. 58.4. 59.4. 60.4. 61.4. 62.4. 63.4. 64.4. 65.4. 66.4. 67.4. 68.4. 69.4. 70.4. 71.4. 72.4. 73.4. 74.4. 75.4. 76.4. 77.4. 78.4. 79.4. 80.4. 81.4. 82.4. 83.4. 84.4. 85.4. 86.4. 87.4. 88.4. 89.4. 90.4. 91.4. 92.4. 93.4. 94.4. 95.4. 96.4. 97.4. 98.4. 99.4. 100.4.

Material of Thrust shaft M. Steel Identification Mark on Do. No 4.

Material of Tunnel shafts M. Steel Identification Marks on Do. Nos 5, 6, 7, 8, 9. Material of Screw shafts M. Steel Identification Marks on Do. No 10.

Material of Steam Pipes Copper Solid drawn. Test pressure 375 lbs. 7 inch.

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 "EMITA" ERIBA & others for same

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

The machinery of this vessel has been built under Special Survey of Good Materials and workmanship and in accordance with the Rules and approved Plans. The machinery & Boilers have been found in an efficient manner tried and strong and are now eligible for record of L.M.C. 11-21. Subject to W.T. Boilers being surveyed annually.

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

F.L.M.C. - 11.21.

F.D. C.L. Subject to the Water Tube Boiler being surveyed annually.

This vessels machinery constructed from same standard Plans as all E class viz. "Emila" "Eromanga" "Echua" "Enaggers" "Erriba" A.C. Heron

185 lbs.

23/1/22

The amount of Entry Fee ... £ 6-0-0

Special ... £ 91-4-0

Donkey Boiler Fee ... £ - - -

Travelling Expenses (if any) £ 3-18-3

When applied for, 24 Nov 1921

When received, 7.2.22

Committee's Minute

Assigned

+ L.H.B. 11.21

F.D. C.L.

CERTIFICATE WRITTEN

Surveyor's Signature

Engineer Surveyor to Lloyd's Register of Shipping.

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Lloyd's Register

Foundation