

REPORT ON MACHINERY.

Received at London Office

Date of writing Report June 4th 1922 When handed in at Local Office June 4th 1922 Port of Adelaide S. Australia.

No. in Survey held at Ostbourne Port Adelaide Date, First Survey Oct 16th 1920 Last Survey June 3rd 1922

Reg. Book. on the Steel Single Screw Steamer "EUWARRA" (Number of Visits YARD N^o 2)

Master Built at Port Adelaide By whom built POOLE & STEEL Tons { Gross 3345.92
Net 1907.24

Engines made at Port Adelaide By whom made Poole & Steel when made 1922

Boilers made at Hunter & Sydney By whom made Burrows & Wilcox when made

Registered Horse Power 576 Owners Commonwealth Govt. Line of Steamers Port belonging to Melbourne

Nom. Horse Power as per Section 28 576 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines TRI-COMPOUND STEAM CONDENSING No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 25.41-68 Length of Stroke 45 Revs. per minute 65 Dia. of Screw shaft as per rule 13.82 Material of m.s. steel
as fitted 14.5 screw shaft)

Is the screw shaft fitted with a continuous liner the whole length of the stern tube In two parts 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 forced with lead
If two
liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 54-3.0

Dia. of Tunnel shaft as per rule 12.5 Dia. of Crank shaft journals as per rule 13.13 Dia. of Crank pin 13.25 Size of Crank webs 8 1/2 x 25 Dia. of thrust shaft under
collar 13.25 Dia. of screw 16.6 Pitch of Screw 16.9 No. of Blades 4 State whether moceable No Total surface 85 sq 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 2 1/2 10 1/2 x 2 1/2 x 2 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Three 3 1/2 Storehold 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 One size 8 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 Yes

Are all connections with the sea direct on the skin of the ship Yes Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Not all Are the Discharge Pipes above or below the deep water line Main
Discharge below
Others 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 No 1 & 2 Holds & fine peak bilge How are they protected Under Lumber 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

BOILERS, &c.—(Letter for record (S) Manufacturers of Steel D. Colville & Sons Glasgow

Total Heating Surface of Boilers 8289 sq ft Is Assisted Forward Draft fitted Yes No. and Description of Boilers 3 BARCOCK & WILCOX WATER TUBE
3 Water Tube

Working Pressure 185 lbs Tested by hydraulic pressure to 360 lbs Date, of test 10.3.22 No. of Certificate

Can each boiler be worked separately Yes Area of fire grate in each boiler 84.5 sq 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 24 Mean dia. of DRUMS 4-0 Length 13-3 1/2 Material of shell plates Steel

Thickness 1 1/2 & 1 Range of tensile strength 2816-32 Tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D. Riv. Lap
long. seams T.R. Butt Straps Diameter of rivet holes in long. seams 2 1/2 Pitch of rivets 3 3/4 Lap of plates or width of butt straps 7

Per centages of strength of longitudinal joint 75-5 Working pressure of shell by rules 210 Size of manhole in shell 11 x 15

Size of compensating ring 28 1/4 x 22 x 7/8 No. and Description of Furnaces in each boiler Material Outside diameter

Length of plain part Thickness of plates 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 1 1/2 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 Lower back plate Steel Thickness 1 1/2 Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes 1 1/2 & 3 1/4 Pitch of tubes 2 1/2 & 2 3/4 Material of tube plates 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 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

IS A DONKEY BOILER FITTED? NO

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied: - 2 Connecting Rod Top and Bolt & nuts, 2 Con² Bottom ends Bolt & nuts, 2 Main Bearing Bolt & nuts, 3 Crank Shaft-Coupling Bolt & nuts, 3 Tunnel Shaft Bolt & nuts, 1 Bilge Pump Suction & Discharge Valve, 3 Main Check Valves, 1 Set Suction & Delivery Valves, Piston Rings & 1 Piston for main feed, General Service, Donkey feed and Ballast Pumps, 24 Bolt & nuts assorted, One loose spring for L.P. Piston, 2 Piston Springs for H.P. & I.P. Pistons, 6 Cylinder Cover & 6 Steam Chest-Cover Studs & nuts, 12. Junk Ring Shields & nuts, 5 Bars Round Iron 3/4", 2", 3", 4" & 1" about 16" long each, 1 C. 2 Propeller 140 Piston Valve, 1 Set Air Pump Valves, 3-3 1/2" Boiler Tubes straight, 3-3 1/2" Tubes bent, 12-3 1/2" inclined, 24-1 1/2" inclined, 12 Hand hole fittings for headers, 4 D. for Mud Drum, 2 Safety Valve springs, 1 Set ports for feed water regulator

The foregoing is a correct description,

For and on behalf of

POOLE & STEEL, LTD.

Arthur H. Poole

Manufacturer.

1920 to 1921
Dates of Survey while building { During progress of work in shops - - Dec. 12, 1920, Jan. 7, 26, Feb. 7, 25, Mar. 11, 24, April 8, 28, May 7, 20, 31, June 10, 22, 30, July 5, 18, 28, Aug. 4, 16, 26, Sep. 5, 8, 30
During erection on board vessel - - - - - Oct. 7, 14, 28, Nov. 4, 15, 28, Dec. 6, 16, 22, Jan. 1922, 10, 17, 26, Feb. 1922, 1, 7, 14, 17, 21, 24, 30, March 3, 8, 10, 14, 17, 21, 28, 31, April 6, 11, 18, 21, 27, May 3, 11, 16, 19, 23, 26, 28, 30, June 1, 9, 6
Total No. of visits 67

Is the approved plan of main boiler forwarded herewith NO

" " " donkey " " " NO

Dates of Examination of principal parts - Cylinders 14.6.21, 16.8.21 Slides 6.12.21 Covers 6.12.21 Pistons 15.10.21 Rods 14.10.21
Connecting rods 7.2.22 Crank shaft 9.12.20 Thrust shaft 9.12.20 Tunnel shafts 2.9.20 Screw shaft 8.9.21 Propeller 14.10.21
Stern tube 8.10.21 Steam pipes tested 17.3.22 Engine and boiler seatings 10.1.22 Engines holding down bolts
Completion of pumping arrangements 31.5.22 Boilers fixed 10.3.22 Engines tried under steam 30 May, 1st June 1922
Completion of fitting sea connections 6.12.21 Stern tube 9.12.21 Screw shaft and propeller 9.12.21
Main boiler safety valves adjusted May 30th 1922 Thickness of adjusting washers Port 13. 1 1/2" - 1 3/2" CB. 1 1/4" - 1 3/2" S.B. 3/2" - 1 1/4"
Material of Crank shaft STEEL Identification Mark on Do. L.R. 44 Material of Thrust shaft STEEL Identification Mark on Do. L.R. 44
Material of Tunnel shafts STEEL Identification Marks on Do. L.R. 44 Material of Screw shafts STEEL Identification Marks on Do. L.R. No 20
Material of Steam Pipes Solid drawn Copper Test pressure 275 1/2 Hydraulic

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 "EURIMBLA" & others

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

The machinery of this vessel has been built under Special Survey of good material and workmanship, and in accordance with the Rules, and approved plans. The machinery and Boilers has been fixed on board in an efficient manner, tried under steam, and are now eligible for the record of L.M.C 6.22. (Subject to the Water Tube Boilers being surveyed annually.)

It is submitted that this vessel is eligible for THE RECORD. + L.M.C 6.22. FD. CL.

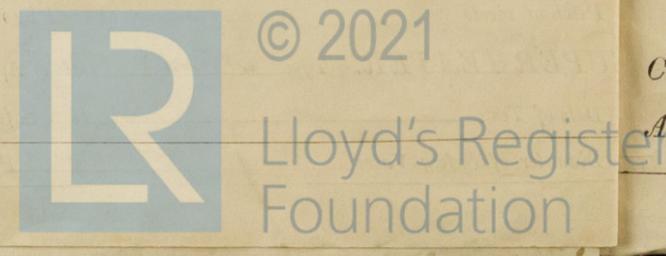
Subject to the Water Tube Boilers 185 lb. being surveyed annually, & to the joint of the screw shaft liner being examined before the end of June 1924.

W.D. 27/7/22
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 6 : 0 :
Special 27.6.0 £ 98 : 11 : 6 June 7 1922
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ 3 : 14 : 6 3/7/22

Committee's Minute FRI. JUL 28 1922

Assigned MACHINERY DEPT. + L.M.C 6.22 F.D.C.L. subject



The Surveyors are requested not to write on or below the space for Committee's Minute.