

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

17 SEP 1928

Date of writing Report 10/8/1928 When handed in at Local Office 10/8/1928 Port of Sydney N.S.W.  
 No. in Survey held at Sydney N.S.W. Date, First Survey 23/3/28 Last Survey 31/7/1928  
 Reg. Book. (Number of Visits 6)  
 08391 on the S.S. "GOONAMBE" Tons { Gross 222  
 Net 78  
 Built at Newcastle N.S.W. By whom built Government Dockyard Yard No. 14 When built 1919  
 Engines made at Newcastle N.S.W. By whom made Government Dockyard Engine No. when made 1917  
 Boilers made at Rinfrew, Scotland By whom made Babcock and Wilcox Ltd. Boiler No. when made 1918  
 Registered Horse Power 68 Owners Red Funnel Fisheries Ltd. Port belonging to Sydney N.S.W.  
 Nom. Horse Power as per Rule 88 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines Vertical Triple Expansion.  
 Dia. of Cylinders 12" 19" 32" Length of Stroke 24" Revs. per minute 110 No. of Cylinders 3 No. of Cranks 3  
 Dia. of Crank shaft journals as per rule 6 7/16" as fitted 6 5/8" Dia. of Crank pin 6 5/8" Crank webs Mid. length breadth 13" If shrunk Thickness parallel to axis 4 1/16" 0  
 Mid. length thickness 4 3/16" Thickness around eye-hole 3"  
 Diameter of Thrust shaft under collars as per rule 6 7/16" as fitted 6 5/8" Diameter of Tunnel shaft as per rule 6.09" as fitted Diameter of Screw shaft as per rule 7 3/16" as fitted 7 5/8" 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 watertight in the propeller boss Yes.  
 If the liner is in more than one length are the joints burned No—filled with plastic metal. 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 Good fit whole length.  
 If two liners are fitted, is the shaft lapped or protected between the liners. Is an approved appliance fitted at the after end of the shaft to permit  
 of it being efficiently lubricated No. Length of Stern Bush 24 inches. Diameter of Propeller 9' 0"  
 Pitch of Propeller 9' 6" No. of Blades 4 State whether Moveable No. Total Surface 28 square feet.  
 No. of Feed Pumps fitted to the Main Engines One Diameter of ditto 2 5/8" Stroke 12" Can one be overhauled while the other is at work.  
 No. of Bilge Pumps fitted to the Main Engines One Diameter of ditto 2 5/8" Stroke 12" Can one be overhauled while the other is at work.  
 Total number and size of power driven Feed and Bilge Auxiliary Pumps ONE FEED—5 1/4" x 3 1/2" x 5" DUPLEX, ONE GENERAL—5 1/4" x 3 1/2" x 5" DUPLEX.  
 No. and size of Pumps connected to the Main Bilge Line ONE MAIN ENGINE PUMP 2 5/8" x 12", GENERAL DONKEY 5 1/4" x 3 1/2" x 5" DUPLEX & EJECTOR.  
 No. and size of Ballast Pumps No. and size of Lubricating Oil Pumps, including Spare Pump  
 Are two independent means arranged for circulating water through the Oil Cooler No. and size of suction connected to both Main Bilge Pumps and Auxiliary  
 Bilge Pumps;—In Engine and Boiler Room 2—2" & Ejector one 2" and in Holds, &c. ONE 2"

No. and size of Main Water Circulating Pump Bilge Suctions ONE 4" No. and size of Donkey Pump Direct Suctions  
 to the Engine Room Bilges ONE 2" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes.  
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes.  
 Are all connections with the sea direct on the skin of the ship Yes. Are they Valves or Cocks Valves and cocks.  
 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 HOWO BILGE SUCTION & 2 DEEP TANK SUCTIONS How are they protected IN M.S. CHANNEL WITH WOOD COVERING BOARDS.  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes.  
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one  
 compartment to another Yes. Is the Screw Shaft/Tunnel watertight Yes. Is it fitted with a watertight door worked from Yes.

MAIN BOILERS, &c.—(Letter for record ) Total Heating Surface of Boilers 1820 sq. ft.  
 Is Forced Draft fitted No. No. and Description of Boilers One—Water tube. Working Pressure 180 lbs.  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes.  
 IS A DONKEY BOILER FITTED? No. If so, is a report now forwarded? Yes.  
 PLANS. Are approved plans forwarded herewith for Shafting Yes. Main Boilers Yes—2 Auxiliary Boilers Yes. Donkey Boilers Yes.  
 (If not state date of approval)  
 General Pumping Arrangements Yes. Oil fuel Burning Piping Arrangements Yes.

SPARE GEAR. State the articles supplied:— One set of piston rings for H.P., M.P. and L.P. Cylinders.  
 Two Connecting Rods and Bolts & Nuts. Two Connecting Rod Bottoms and Bolts and Nuts. Two  
 Main Bearing Bolts and Nuts. One set of Coupling Bolts and Nuts. One set of  
 Feed Pump Valves. One set of Bilge Pump Valves. Assorted bolts, nuts and iron  
 of various sizes and lengths.

The foregoing is a correct description,

Manufacturer.



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Foundation

002725-002735-0221



During progress of work in shops - -  
Dates of Survey while building  
During erection on board vessel - - -  
Total No. of visits 6

Dates of Examination of principal parts - Cylinders 4/7/28 Slides 4/7/28  
Covers 4/7/28 Pistons 4/7/28 Rods 4/7/28  
Connecting rods 4/7/28 Crank shaft 4/7/28 Thrust shaft 23/3/28  
Tunnel shafts ✓ Screw shaft 23/3/28 Propeller 23/3/28  
Stern tube 23/3/28 Engine and boiler seatings 4/7/28 Engines holding down bolts 4/7/28  
Completion of pumping arrangements 31/7/28 Boilers fixed ✓ Engines tried under steam 31/7/28  
Completion of fitting sea connections 23/3/28 Stern tube 23/3/28 Screw shaft and propeller 26/3/28  
Main boiler safety valves adjusted 31/7/28 Thickness of adjusting washers P. 2 1/4" S. 1 3/4"  
Material of Crank shaft Mild steel. Identification Mark on Do.  
Material of Thrust shaft Mild steel. Identification Mark on Do.  
Material of Tunnel shafts ✓ Identification Marks on Do.  
Material of Screw shafts Mild steel. Identification Marks on Do.  
Material of Steam Pipes Copper and mild steel. Test pressure 360 lbs. and 540 lbs. Date of Test 23/7/28.  
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 the Rules for carrying and burning oil fuel been complied with ✓  
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.)

This machinery has been carefully and completely surveyed, the materials and workmanship appear to be of the highest class. Main steam pipes taken ashore, two lengths of copper pipe annealed, examined and tested to 360 lbs. per sq. inch. one length of mild steel pipe examined and tested to 540 lbs. per sq. inch and all found sound and tight.

The engines and boiler have been seen securely and satisfactorily fitted on board and seen working under a full head of steam ahead and astern.

The pumping arrangements carefully examined and found in order.

This vessel's machinery is now eligible, in our opinion, for record of L.R.C. with date to be noted in the Register Book.

You will observe that the Boiler was built under Lloyd's Special Survey at Renfrew in May 1918.

Certificate to be sent to Sydney A.S.W.

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

The amount of Entry Fee ... £ 2 : - : - When applied for  
Special ... £ see Syd. Rpt 9 13/8 1928  
Donkey Boiler Fee ... £ ✓ : ✓ : When received  
Travelling Expenses (if any) £ ✓ : ✓ : 8-10-28

A.C. Heron  
Jas. C. E. E. E.  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
Assigned

TUE. 25 SEP 1928

See Syd. Rpt. 9. attached



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