

REPORT ON MACHINERY.

No. 5914

Date of writing Report Sep. 9th. 1925. When handed in at Local Office Hong Kong Received at London Office 2 NOV 1925
No. in Survey held at Hong Kong 10 Port of Hong Kong
Reg. Book. Twin S. S. "BATAAN" HULL No. 233 Date, First Survey 13/9/24 Last Survey 2/6/1925.
on the Twin S. S. "BATAAN" HULL No. 233 (Number of Visits 15)
Master Built at Hong Kong By whom built W. S. Bailey & Co. Ltd. Tons { Gross 190.74
Engines made at Paisley By whom made Campbell & Calderwood Net 100.92
Boilers made at Glasgow By whom made Yarrow & Co. When built 1925
Registered Horse Power 730 I.H.P. Owners Teodoro R. Yangco & Co. when made 1925
Nom. Horse Power as per Section 28 114 Is Refrigerating Machinery fitted for cargo purposes No Port belonging to Manila, P.I.

ENGINES, &c.—Description of Engines Twin Screw Triple expansion Is Electric Light fitted Yes
Dia. of Cylinders 9 1/2" x 15" x 24 1/2" Length of Stroke 15" Revs. per minute 260 No. of Cylinders 3 No. of Cranks 3
Is the screw shaft fitted with a continuous liner the whole length of the stern tube No liners Vickers oil gland Material of screw shaft Steel
in the propeller boss - If the liner is in more than one length are the joints burned - Is the after end of the liner made water tight
between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive - If the liner does not fit tightly at the part
liners are fitted, is the shaft lapped or protected between the liners - If two In brackets 25"
Dia. of Tunnel shaft as per rule 4.28" Dia. of Crank shaft journals as per rule 4.5" Length of stern bush In stern tube 28 1/2"
collars - Dia. of screw 5'-9" Pitch of Screw 6'-2" Dia. of Crank pin - Size of Crank webs - Dia. of thrust shaft under
No. of Feed pumps 2 Diameter of ditto 4 1/2" Stroke 10" No. of Blades 4 State whether moveable No Total surface 15
No. of Bilge pumps 2 Diameter of ditto 2 1/2" Stroke 5 1/2" Can one be overhauled while the other is at work Yes (Independent Hor. simplex)
No. of Donkey Engines 9 Sizes of Pumps See note Can one be overhauled while the other is at work Yes
In Engine Room 3 - 2" No. and size of Suctions connected to both Bilge and Donkey pumps
and 2 - 2" in aft compartment. In Holds, &c. 1 - 2" in No. 1 hold, 1 - 2" in No. 2 hold
No. of Bilge Injections one size 5 1/2" Connected to condenser, or to circulating pump Cir. pump Can separate Donkey Suction fitted in Engine room & size 1 - 2 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 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 - Is it fitted with a watertight door - worked from -

BOILERS, &c.—(Letter for record -) Manufacturers of Steel -
Total Heating Surface of Boilers 2100 Is Forced Draft fitted Yes No. and Description of Boilers One - Yarrow water tube
Working Pressure 180 lbs. Tested by hydraulic pressure to - Date of test - No. of Certificate -
Can each boiler be worked separately - Area of fire grate in each boiler 60 sq. ft. No. and Description of Safety Valves to
each boiler 2 1/2" double Area of each valve 3.97 sq. ft. Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers - Length - Material of shell plates -
Thickness - Range of tensile strength - Are the shell plates welded or flanged - Descrip. of riveting: cir. seams
long. seams - Diameter of rivet holes in long. seams - Pitch of rivets - Lap of plates or width of butt straps -
Per centages of strength of longitudinal joint - Working pressure of shell by rules - Size of manhole in shell -
Size of compensating ring - 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 steam space: -
Material - Thickness - Pitch of stays - 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 Lower back plate - Thickness - Greatest pitch of stays - Working pressure of plate by rules -
Diameter of tubes - Pitch of tubes - 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 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 - 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 -

W103-0174

IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? -
SPARE GEAR. State the articles supplied :- 2 connecting rod top end bolts and nuts; 2 connecting rod bottom end bolts and nuts; 2 main bearing bolts; 1 set of coupling bolts; 1 set of feed & bilge pump valves; 1 set of piston rings; Assorted bolts and nuts & iron of various sizes.
In addition to the above:- 1 pair bottom end brasses; 1 eccentric strap; 1 valve spindle; 1 piston rod; 10 % of total number of boiler tubes; 1 set of safety valve springs, and spares for oil fuel installation.

The foregoing is a correct description,

For W. S. BAILEY & Co., Ltd.

J. Ramsay

Manufacturer.

1924
Dates of Survey { During progress of work in shops - - - Sep. 13, Nov. 8, Dec. 3, 1925 Feb. 14, Mar. 24, Apr. 3, 10,
while erection on board vessel - - - 1925. Apr. 21, May 1, 8, 14, 18, 29, June 1, 2.
building { Total No. of visits 15
Is the approved plan of main boiler forwarded herewith No
" " " donkey " " " -
" " " " " " -
Dates of Examination of principal parts - Cylinders - Slides - Covers - Pistons - Rods -
Connecting rods - Crank shaft - Thrust shaft - Tunnel shafts 14.5.25 Screw shafts 24.3.25 Propellers 24.3.25
Stern tube 3.4.25 Steam pipes tested 18.5.25 Engine and boiler seatings 3.4.25 Engines holding down bolts 29.5.25
Completion of pumping arrangements 29.5.25 Boilers fixed 1.5.25 Engines tried under steam 1.6.25
Completion of fitting sea connections 21.4.25 Stern tube 8.5.25 Screw shaft and propeller 8.5.25
Main boiler safety valves adjusted 1.6.25 Thickness of adjusting washers Port 3/8", Starboard 13/32"
Material of Crank shaft - Identification Mark on Do. No. 971 JDB Material of Thrust shaft - Identification Mark on Do. 971 JDB
Material of Tunnel shafts Steel Identification Marks on Do. LLOYDS No. 1006 Material of Screw shafts Steel Identification Marks on Do. LLOYDS No. 1006
Material of Steam Pipes S.D. copper Test pressure 360 lbs.
Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150°F. Yes
Have the requirements of Section 35 of the Rules been complied with Yes
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.)

The materials have been tested by the Surveyors to this Society and the Machinery and Boilers have been surveyed during construction by the Surveyors to this Society in Glasgow, and during erection on board at this Port. The workmanship is good and it is recommended that the vessel be classed with Lloyd's Machinery Certificate and the record of L.M.C. 6.25. be made in the Register Book.

IDENTIFICATION MARKS ON BOILERS:-

No. 16723
LLOYDS TEST 320 lbs
W.P. 180 lbs.
A.D.M. 4.2.25

NOTE:- 1 - Independent air pump 16"x 10", Cyl. 7"x 10"; 1 - General Service pump, Hor. Duplex 5 1/2" x 4 1/2" x 5"; 1 - Circulating pump 8" Centrifugal, Engine 5 1/2" x 5"; 2 - Fuel oil pump with heaters complete; 48" F.D. Fan, Engine 5" x 3 1/2"; 1 - 10 K.W. Electric Generator; 2 - Feed pumps, Hor. Simplex 7 1/2" x 4 1/2" x 10".

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 6.25. FD. 0
1 Water Tube Boiler.

The amount of Entry Fee ... £ 6 : - : When applied for,
Special ... £ 19 : - : 19
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) \$60. : : When received,
25/11/25

Committee's Minute

FRI. 6 NOV 1925

Assigned

+ L.M.C. 6.25.
S.D. O.S.

1 Water Tube Boiler

L. Young & J. Morrison
Engineer Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register
Foundation