

No. 86684

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

When handed in at Local Office 30th May 1923 Port of London

Survey held at London Date, First Survey 25th April Last Survey 30th May 1923

on the Steel Twin S.S. "WANGARATTA" (Number of Visits 8) Tons Gross 1918

Belfast By whom built Workman Clark & Co^{ys} Yard No. 440 When built 1919

made at By whom made Engine No. 440 when made

made at By whom made Boiler No. 440 when made

Ind Horse Power Owners British India Steam Nav Co^{ys} Port belonging to Glasgow

Ind Horse Power as per Rule 1138 Is Refrigerating Machinery fitted for cargo purposes yes Is Electric Light fitted yes

Engines, &c.—Description of Engines Vertical Triple Expansion

Cylinders 26 1/2, 44, 73 Length of Stroke 48 Revs. per minute 70 No. of Cylinders 6 No. of Cranks 6

Crank shaft journals as per rule 14.37 as fitted 14.34 Dia. of Crank pin 14 3/4 Crank webs Mid. length breadth Thickness parallel to axis shrunk Mid. length thickness 9 Thickness around eye-hole 6 3/8

of Thrust shaft under collars as per rule 13.4 as fitted 13.4 Diameter of Tunnel shaft as per rule 14.8 as fitted 15 3/4 Diameter of Screw shaft as per rule 15.3 as fitted 15 3/4 Is the Screw shaft

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

er is in more than one length are the joints burned If the liner does not fit tightly at the part

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

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

g efficiently lubricated No Length of Stern Bush 5'-3" Diameter of Propeller 17'-3"

Propeller 18'-0" No. of Blades 4 State whether Moveable yes Total Surface square feet.

Feed Pumps fitted to the Main Engines 4 Diameter of ditto 4 1/2 Stroke 24 Can one be overhauled while the other is at work yes

Bilge Pumps fitted to the Main Engines 4 Diameter of ditto 4 1/2 Stroke 24 Can one be overhauled while the other is at work yes

Number and size of power driven Feed and Bilge Auxiliary Pumps 2 - Single 9 1/2 x 7 x 18" Aux feed + General Double Weir feed 15 1/2 x 11 1/2 x 24"

size of Pumps connected to the Main Bilge Line Main engine pumps, Single general + single ballast

size of Ballast Pumps Single 10 1/2 x 14 x 24 No. and size of Lubricating Oil Pumps, including Spare Pump 1 1/2"

Independent means arranged for circulating water through the Oil Cooler No. and size of suction connected to both Main Bilge Pumps and Auxiliary

pumps;—In Engine and Boiler Room 5 x 3 1/2" and in Holds, &c. 2 x 3 1/2" 4" 1. 2. 3. 5"

3 x 3 1/2" in hold 1 x 3 1/2" in hold 3 1/2" in tunnel

size of Main Water Circulating Pump Bilge Suctions 2 x 14" valves No. and size of Donkey Pump Direct Suctions

Engine Room Bilges 1 x 3 1/2" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes yes

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

connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Bolt

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

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

pipes are carried through the bunkers. For suction pipes How are they protected Bored in

Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes

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

to another yes Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from top platform

BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 17079 sq ft Working Pressure 200 lbs

Ind Draft fitted yes No. and Description of Boilers 3 DB

REPORT ON MAIN BOILERS NOW FORWARDED? yes

DONKEY BOILER FITTED? yes If so, is a report now forwarded? yes

VS. Are approved plans forwarded herewith for Shafting no Main Boilers no Auxiliary Boilers Donkey Boilers yes

(If not state date of approval) Pumping Arrangements Oil fuel Burning Piping Arrangements

BE GEAR. State the articles supplied:—Screw shaft, 2 Bronze + 2 C.S. propeller blades, Sets

dash + tunnel shaft coupling bolts, Set of top + bottom end + main bearing bolts, Set of

bearing bushes, eccentric strap, valve spindle, air pump rod, valves for

brackets, bolts + studs etc.

The foregoing is a correct description

Manufacturer.

W223-0106

WED. 11 APR 1923

TUE DEC. 18 1923

FRI 20 JUN 1924

TUES. 25 NOV 1924

TUES. 18 AUG 1925

FRI. 15 JAN 1926

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FRI. 12 MAR 1928

TUES. 4 OCT 1927

Yard's Register

Foundation

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits

See Rpt: 9

Dates of Examination of principal parts - Cylinders _____ Slides _____

Covers _____ Pistons _____ Rods _____

Connecting rods _____ Crank shaft _____ Thrust shaft _____

Tunnel shafts _____ Screw shaft _____ Propeller _____

Stern tube _____ Engine and boiler seatings _____ Engines holding down bolts _____

Completion of pumping arrangements _____ Boilers fixed _____ Engines tried under steam 30.5.23

Completion of fitting sea connections _____ Stern tube _____ Screw shaft and propeller

Main boiler safety valves adjusted 30.5.23 Thickness of adjusting washers

Port	Centre	Starboard
$\frac{1}{4}$ $\frac{5}{16}$ $\frac{1}{4}$	$\frac{3}{8}$ $\frac{5}{16}$ $\frac{5}{16}$	$\frac{5}{16}$ $\frac{5}{16}$ $\frac{1}{4}$

Material of Crank shaft Ingot-steel Identification Mark on Do. All stamped by B.C. Ltd.

Material of Thrust shaft do Identification Mark on Do. "

Material of Tunnel shafts do Identification Marks on Do. "

Material of Screw shafts do Identification Marks on Do. "

Material of Steam Pipes Steel Test pressure _____ Date of Test _____

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 Yes If so, state name of vessel G. Type "Romanstar" "Nowshera"

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

The machinery of this vessel was constructed in 1919 under the survey of the British Corporation.

Engines & boilers opened up & examined, materials & workmanship found good, scantlings ascertained by actual measurement and as stated.

Tested under steam & found satisfactory.

Dejable in my opinion for classification with record of LMC 5-2

Screw shaft to be noted (CL) 5-23

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

In consideration

The amount of Entry Fee ... £	:	:	When applied for,
Special ... £	:	:	19.
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	:	:	19.

E. J. Stoddart

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute Assigned See other Rpt Don 86684

FRI JUN 8 1923

TUES. 25 NOV 1924

FRI 20 JUN 1924

FRI. 23 NOV. 1923

