

No. 86684

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office  
Survey held at London Date, First Survey 25<sup>th</sup> April Last Survey 30<sup>th</sup> May 1923  
On the Steel Twin S.S. "WANGARATTA"  
By whom built Hortman Clark & Co Ltd Yard No. 440 Tons 1918  
When built 1919  
By whom made do Engine No. 440 when made do  
Boiler No. 440 when made do  
Horse Power 1138 Owners British India Steam Nav Co Ltd Port belonging to Flagman  
Is Refrigerating Machinery fitted for cargo purposes yes Is Electric Light fitted yes

ES, &c.—Description of Engines Vertical Triple Expansion  
Cylinders 26 1/2 x 44 x 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 Dia. of Crank pin 14 3/4 Crank webs as per rule 13.4 Mid. length breadth 9 1/2 Thickness parallel to axis 6 3/8  
of Thrust shaft under collars as fitted 15 Diameter of Tunnel shaft as fitted 13 1/2 Diameter of Screw shaft 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  
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 yes  
Is an approved appliance fitted at the after end of the shaft to permit  
of 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  
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 rel  
Independent means arranged for circulating water through the Oil Cooler yes 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 Both  
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  
Draft fitted yes No. and Description of Boilers 3 DB Working Pressure 200 lbs  
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 yes Donkey Boilers yes  
(If not state date of approval)  
Pumping Arrangements no Oil fuel Burning Piping Arrangements yes

GEAR. State the articles supplied:— Screw shaft, 2 Bronze + 2 C.I. propeller blades, Sets  
dash + tunnel shaft coupling bolts, Set of top + bottom end + main bearing bolts, Set of  
main bearing bushes, Eccentric strap, valve spindle, air pump rod, valves for  
compressors, bolts + studs etc

The foregoing is a correct description

Manufacturer.

W223-0106

WED. 11 APR 1928  
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  
Lloyd'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

Covers

Connecting rods

Tunnel shafts

Stern tube

Completion of pumping arrangements

Completion of fitting sea connections

Main boiler safety valves adjusted 30.5.23

Material of Crank shaft

Material of Thrust shaft

Material of Tunnel shafts

Material of Screw shafts

Material of Steam Pipes

Is an installation fitted for burning oil fuel

Have the requirements of the Rules for carrying and burning oil fuel been complied with

Is this machinery duplicate of a previous case

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.

Worthy in my opinion for classification with record of LMC 5-2. Screw shaft to be noted (CL) 5-23.

In consideration

The amount of Entry Fee ... £  
Special ... £  
Donkey Boiler Fee ... £  
Travelling Expenses (if any) £

When applied for,

When received,

E. J. Stoddart

Engineer Surveyor to Lloyd's Register of Shipping

TUES. 25 NOV 1924

Committee's Minute

Assigned

See other Rpt Don 86684

FRI 20 JUN 1924

FRI. 23 NOV. 1923



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