

No. 19404.

## REPORT OF SURVEY FOR REPAIRS, &amp;c., OF ENGINES AND BOILERS

(Received at London Office)

8 JUN 1948

14th June 1948 When handed in at Local Office 17th June 1948 Port of SOUTHAMPTON  
 held at SOUTHAMPTON Date First Survey 14th April 1947 Last Survey 17th May 1948  
 (No. of Visits) 79

e Machinery of the Wood, Iron or Steel T.S.S. "ORONTES"

0097 Vessel built at Barrow By whom Vickers Armstrong, Ltd When 1929-7  
 044 Engines made at Barrow By whom Vickers Armstrong, Ltd When 1929-7  
 25AN Boilers, when made (Main) 1929 (Donkey)  
 2SB Owners Great Ship Builders Ltd, Ltd Owners' Address  
 6DB Managers (if not already recorded in Appendix to Register Book.)  
 15A If Surveyed Afloat or in Dry Dock No 4 Drydock, Dock  
 RS (State name of Dock) Southampton  
 O. Port

Examination and Repairs (if any) Part MS. B.S.Y.T.S. Repairs

en held, must be reported in detail and serial in the terms of the Rules. State clearly the cause of Repairs, if any, nature and extent of Examinations and subsequent Repairs. Repairs on account of Damage (the cause of which must be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be briefly d of the report. State also the dates and initials of any letters respecting this case.

ere the Surveyor has not made a special damage report he is required to state whether he offered his purpose, and why they were declined

rt made by anyone else? If so, by whom?

ersonally go inside each Main Boiler separately and make a thorough examination at this time?

Donkey "

at reasons

What parts of the Boilers could not be thus thoroughly examined?

s. in the absence of internal examination, were adopted by the himself of the thorough efficiency of those parts of each Boiler?

internal examination of each boiler 1, 2, 3, 4, 5, 7, 8, 3/48, no 6 - 4/48.

Present condition of funnel(s)

xamine the Safety Valves of the Main Boilers?

To what pressure were they afterwards adjusted under steam?

xamine the Safety Valves of the Donkey Boilers?

To what pressure were they afterwards adjusted under steam?

xamine all the manholes, doors and their fastenings of the Main Boilers?

Yes, and of the Donkey Boilers?

xamine the drain plugs of the Main Boilers?

, and of the Donkey Boilers?

xamine all the mountings of the Main Boilers?

Yes, and of the Donkey Boilers?

t now been drawn and examined? Yes Has it a continuous liner?

Yes Is an approved oil retaining appliance fitted at the after end? No

n changed? Yes If so, state reasons Line drawn

Has the shaft now fitted been previously used? No Has it a continuous liner? Yes

retaining appliance fitted at the after end?

State date of examination of Screw Shaft 21-1-48

State the wear down in the

Is electric light and/or power fitted? Yes

If so, did the Surveyor examine the generators, motors, switchgear, cables and fuses? Yes

resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? Please see Electrical Surveyors Report.  
 Engine parts, when referred to by numbers, should be counted from forward.

complete, state what arrangements have been made for its completion and what remains to be done To complete 9. S. Port tank to be cleaned. Please also see Londo April 11 1948 for start of survey.

e. Vessel placed in Drydock, sea connections opened, examined until their fastenings.

propeller shaft, drain, examined with the steamer lines. Starboard line torn in way of stern gland packing and prop shaft fitted Lloyds 465. 9. Old shaft set to make fit renewal of line will be placed onboard as

All turbines, casings & rotors ashore for repairs, opened up, examined and as found necessary old refitted on board. All main gearing renewed by port starboard the shaft tunnel shaft with bearings replaced and. Gearbox, starboard main condenser bedding removed and cleaned. Remained of main & auxiliary steam pipe examined, tested. All auxiliary and auxiliary of p.s. air pumps, port turbo feed, main air pump, (continued)

ervations, Opinion, and Recommendation: The machinery of this vessel as now seen is

ly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any alteration required

to be made in the records of the vessel's machinery, boilers, working pressures, &c.; thus, for example, BS 9.11, B&MS 9.11 XLMC 9.11 or XLMC 140 lb., FD, &c.)

CS 2.34,

o safe working condition and is eligible our opinion to remain as classed in record of BS 5.48, T.S.p. 1.48 C.L. S.N. 1.48 C.L. now and M.S. 5.48

the survey has been completed.

Section 29) Electric (in a/c. 62:8:0  
 15:0:0  
 Repair Fee (any 90:0:0  
 Section 29) Electric (in a/c. 15:15:0  
 15:0:0  
 Expenses (if chargeable) 18:10:2

Fees applied for  
 7/6/1948  
 Received by me  
 19/6/1948

J. Nicholas J. A. Boarder  
 Engineer Surveyor to Lloyd's Register of Shipping.

8 Minute

WED 23 JUN 1948 FRI 25 JUN 1948

Deferred for long ths.

but: BS.5.48

Part S.1.48  
Star. S.N. 1.48

Is a Certificate required? If so, to be sent to

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Lloyd's Register Foundation  
 003620-003624-0081

44 June, 1944.

on the

T.S.S. DROMESMachinery continued:

No 2 bridge pump) opened up & examined. Steering engine opened up & examined, undamaged. Opened up & examined. Pumping arrangements examined & tested. Boilers: All boilers examined throughout with their safety valves, done. Main tanks found in order. Boilers examined under steam and their safety valves adjusted to 215 lbs. Oil feed installation, examined & tried under working conditions. Fire fighting appliances examined & tested.

Electrical: Please see Electrical Surveyor's report, now attached.

W.R. Repairs:

All turbines removed from vessel and sent to Messrs. J. D. Thorncroft Works, for repairs. All turbines opened up, rotors & casings cleaned and following repairs carried out:

Port starboard H.P. turbines:

Rotors: 3rd, 4th, 5th expansions reaction, blading 1st row impulse blading cut out & renewed. Rotor travel skinned in lathe and grooves for blade support. Old labyrinth gland strips cut out and renewed. Journals, thrust faces skinned up. New rotary baffles (water through) fitted and fixed oil baffles modified to suit rotary baffles. Claw coupling faces & coupling teeth trued up. Rotors dynamically balanced on completion of repairs.

Casings: 3rd, 4th, 5th expansions reaction, blades 1st row impulse blades cut out & renewed. Casings bored to remove erosion in way of grooves, & grooves re-cut for new blades. Horizontal joint faces planed up. Nipple plates renewed, studs renewed, center nipple plate renewed & others refitted. Thrust cylinders renewed completely. Rotor bearings remounted, thrust pads refaced. New labyrinth gland packing fitted.

Reaction blading renewed in dolphins at intake in Hatfield Hele A.T.Y. (Stansted) Port & starboard I.P. turbines:

Rotors: All reaction blading renewed. Rotors skinned in lathe grooves machined. Journals, thrust & gland paths skinned. Claw coupling faces & coupling teeth trued up. New rotary baffle, fitted & fixed oil baffle modified to suit. Rotors dynamically balanced on completion of repairs.

Casings: All reaction blading renewed, casings bored to remove erosion in way of blade grooves, grooves re-machined. Horizontal joint faces planed up. Rotor bearings remounted, thrust pads re-faced.

Port I.P. bottom casing: Metal found porous at bottom, now cut out and steel plate patches made & securely fitted outside of casting and blade grooves re-machined. Drawing No 627/06 showing this repair is attached.

Port & Casing blades renewed in brass:

Rotors: 1st row of impulse blading in port rotor and all 12 rows ahead reaction blading in port & starboard rotors renewed. Rotors placed in lathe and ahead barrels skinned to remove erosion at blade roots & grooves re-machined. Journals, thrust faces & gland paths skinned. All labyrinth packing renewed. Aster blading cleaned & dressed up. New rotary baffles fitted & fixed baffles modified to suit.

2021  
Continued

9a.

of SOUTHAMPTON

MANUFACTURERS  
Continuation of Report No. 19404. dated 4th June, 1918. on the

T.S.s. "ORONTES"

W.D. Repairs continued - Int. & Starb. & P. turbines.

Int. standard rotors dynamically balanced on completion.

Rasings: 1st 9 rows of reaction. Plating removed. Case planed in way of blade grooves to remove erosion. Blade grooves remachined. Remachined joint faces planed up. Lotor bearings re-lubricated, thrust pads refitted & damaged packing strips renewed.

General: Spare frames for all turbines remounted & rebedded. Jigs supplied for bedding carbon segments for all turbines to suit new diameter of rotor shaft.

Gearing: Main gearing received completely. All main gear case bearings remounted, including spare bearings, and gear to shafts pinion shafts bedded.

On completion all turbines closed up in shop and lifted aboard, lined up, securely fitted. All lubricating pipes, strainers cleared and refitted. Engine sealing examined when all turbines removed. Steam pipe exhaust pipes removed for removal of turbines examined internally & found in order.

J. Mitchell.

T.S.S. "ORONTES"

Electrical Installation Now Done:- Electrical special Survey complete.

Repairs:-

The electrical equipment of this vessel has been revised in accordance with the original plans, with the exception, that, the main cables and engine room wiring are of the original installation.

All electrical drives have been stripped, overhauled and commutators skimmed where necessary.

The galley working equipment has been overhauled and new heating elements fitted and the following additional equipment installed:-

A new sewerage pump motor of 6 B.H.P. has been installed aft to alter for the new accommodation.

New Ventilation Fans:- Thirteen at 1.5 B.H.P.; Seven at 2.75 B.H.P. and one at 1.25 B.H.P. and the following fans are now redundant:-

64.P.F, 65.P.F, 22.S.F, 23.S.F, 15.P.F, 17.P.F, 19.P.F, 16.P.F, 18.P.F, 20.P.F, 9.P.F, 10.P.F, 11.P.F, 13.P.F, 14.P.F, 2.P.F, 4.P.F, 6.P.F, 8.P.F, 3.P.F, 5.P.F, 7.P.F, 25.A.P.F, 50.P.F, 50.P.F, 50.A.P.F, 26.P.F, 26.A.P.F, 23.P.F, 24.P.F, 1.G.L.

All rewiring has been carried out in "H.R." flame proof braided cable where run in the open and has been protected from mechanical damage as required.

Insulation tests have been made on the finished installation and electrical drives, generator protection tested, and equipment examined under working conditions and all found satisfactory.

F.H. Tirkell

a Radar Equipment has been installed and it is described as "MARCONI RADIO LOCATOR".