

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

(Received at London Office)

Date of writing Report 1<sup>st</sup> Jan 1949 When handed in at Local Office 1<sup>st</sup> Jan 1949 Port of Southampton

No. in Survey held at Portsmouth Date. First Survey 7<sup>th</sup> July Last Survey 27<sup>th</sup> Sept 1948  
 Reg. Book. 79553 on the Machinery of the Wood, Iron or Steel S. WAVE KING (No. of Vents 14)

Gross 8159 Vessel built at Glasgow By whom Harland & Wolff Ltd When 1944  
 Net 4545 Engines made at Newcastle-on-Tyne By whom B. & W. Parsons & Co. Ltd When 1944  
 Nominal 1210 Boilers, when made (Main) 1944 (Donkey) 1944  
 Horse Power 2 Owners The Admiralty Owners' Address (if not already recorded in Appendix to Register Book.)  
 No. of Main Boilers 2 Managers ✓ Port London Voyage ✓  
 Steam Pressure 460 # Surveyed Afloat ✓ in Dry Dock Portsmouth Dockyard  
 in Main Boilers 460 (State name of Dock.)  
 in Donkey Boilers 180

Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

CHARACTER.	Years assigned expired	Machinery and Boiler Surveys (including date of N.B., if any)
* for Special Survey. Date of last Survey and of Periodical Surveys.		
(Classification contemplated)		

Last Report No. \_\_\_\_\_ Port \_\_\_\_\_

Particulars of Examination and Repairs (if any) Classification

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

In damage cases where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose, and why they were declined. ✓

Was a damage report made by anyone else? If so, by whom? ✓

Did the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? Yes

" " Donkey " " " Yes

If not, state for what reasons ✓ What parts of the Boilers could not be thus thoroughly examined? ✓

What special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler? ✓

State latest date of internal examination of each boiler M.B. 20.8.48 DB 30.8.48

Did the Surveyor examine the Safety Valves of the Main Boilers? Yes To what pressure were they afterwards adjusted under steam? 460 lb./sq. in.

Did the Surveyor examine the Safety Valves of the Donkey Boilers? Yes To what pressure were they afterwards adjusted under steam? 180

Did the Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? Yes and of the Donkey Boilers? Yes

Did the Surveyor examine the drain plugs of the Main Boilers? ✓ and of the Donkey Boilers? ✓

Did the Surveyor examine all the mountings of the Main Boilers? Yes and of the Donkey Boilers? Yes

Has the screw shaft now been drawn and examined? Yes Has it a continuous liner? Yes Is an approved oil retaining appliance fitted at the after end? ✓

Has shaft now been changed? No If so, state reasons ✓ Has the shaft now fitted been previously used? ✓ Has it a continuous liner? ✓

Is an approved oil retaining appliance fitted at the after end? ✓ State date of examination of Screw Shaft 9.8.48 State the wear down in the stern bush blue fit

Is electric light and/or power fitted? Yes If so, did the Surveyor examine the generators, motors, switchgear, cables and fuses? Yes

Has the insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? Yes

If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done. Complete.

## NOW DONE:

Vessel in drydock. Examined propeller, propeller shaft, stern bush and all sea cocks and valves with their fastenings.

All turbines, casings, rotors and bearings: all gearing, pinions, wheels, journals and bearings: thrust and intermediate shafting and bearings, all independent pumps and pumping arrangements opened up, examined and found to be in good order.

Main and auxiliary condensers tested.

Dynamo, lagging, opened up and examined.

Steam pipes tested to Rule Requirements.

Electrical installation examined and tested.

Main and auxiliary steam and feed pipes examined.

Main and donkey boilers examined throughout together with all

General Observations, Opinion, and Recommendation: The machinery of this vessel, as now seen

(State clearly 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, LMC 9,11 or LMC 140 lb., FD, &c.)

in good order and efficient condition and eligible in our opinion, to be placed in the Society's Register Book with record of LMC 9,48 and notation TS CL 8,48.

Survey Fee (per Section 29) £ 80:0:0 Fees applied for 19  
 Special Damage or Repair Fee (if any) £ 10:10:10 Received by me, 19  
 (per Section 29.)  
 Travelling expenses (if chargeable) £ 8:5:0

Committee's Minute FRI. 11 FEB 1949

Assigned See minute on  
for mach. repl.

H. B. Rogers & J. A. Booter  
 Engineer Surveyor to Lloyd's Register of Shipping.



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S.S. WAVE KING

superheaters (MS) manholes, doors and mountings. All mountings overhauled. All boilers afterwards examined under steam and safety valves adjusted to the pressures noted above.

Oil burning installation and steam smothering arrangements examined under working conditions.

On completion of repairs all main and auxiliary machinery tried under working conditions and proved satisfactory.

REPAIRS:

Stem bush renewed.

H.P. turbine rotor: blading in 5<sup>th</sup> stage renewed.

L.P. - - - : 1<sup>st</sup> row of action blading renewed

Both rotors afterwards rebalanced.

Starboard main boiler: two superheater elements renewed.

A considerable number of minor repairs effected.



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