

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

(Received at London Office \_\_\_\_\_)

8 - MAR 1948

Date of writing Report 11th Febr. 1948 When handed in at Local Office \_\_\_\_\_ 19\_\_\_\_ Port of PORT SAID

No. in Survey held at PORT SAID & SUEZ Date. First Survey 31.12.47 Last Survey 22.1.1948  
(No. of Visits 2)

036 on the Machinery of the ~~Wood~~ Steel Sc. Steamer "EMPIRE REST"

Gross 1327 Vessel built at Port Glasgow By whom Ferguson Bros When 1944 Month 10  
 Net 375 Engines made at \_\_\_\_\_ By whom \_\_\_\_\_ When \_\_\_\_\_  
 Nominal 374 Boilers, when made (Main) 1944 (Donkey) \_\_\_\_\_  
 Horse Power of Main Boilers 2165 Owners M.S.T. Owners' Address \_\_\_\_\_  
 of Donkey Boilers \_\_\_\_\_ Managers City Line Ltd Port Greenock Voyage \_\_\_\_\_  
 Steam Pressure \_\_\_\_\_ If Surveyed Afloat or in Dry Dock Both  
 in Main Boilers 225 (State name of Dock.) Khedivial Graving Dock - Suez  
 in Donkey Boilers \_\_\_\_\_

Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).  
 CHARACTERS for Special Survey. Date of last Survey and of Periodical Surveys. Years assigned now expired. Machinery and Boiler Surveys (including date of N.B., if any)

CHARACTERS for Special Survey. Date of last Survey and of Periodical Surveys.	Years assigned now expired.	Machinery and Boiler Surveys (including date of N.B., if any)
<u>+ A1</u>	<u>11.4.48</u>	<u>+ LMC 10.4.48</u>
<u>in Court Service</u>		<u>BS 11.4.48</u>
		<u>CL</u>
		<u>WTB</u>
<u>Fitted for oil fuel</u>	<u>10.4.48</u>	<u>F. Palace 150° F.</u>

Particulars of Examination and Repairs (if any) Docking. BS. TS. & Repairs

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.

Where 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.

Has 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 \_\_\_\_\_

What parts of the Boilers could not be thus thoroughly examined? None

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 After Blr 31.12.47 Forwd 13.1.48

Present condition of funnel Good

Did the Surveyor examine the Safety Valves of the Main Boilers? Yes To what pressure were they afterwards adjusted under steam? 225 lbs/sq.in.

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

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

Did the Surveyor examine the drain plugs of the Main Boilers? None, and of the Donkey Boilers? \_\_\_\_\_

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

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? No

Has the 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 22.1.48 State the wear down in the stern bush 1/32" Is electric light and/or power fitted? Yes If so, did the Surveyor examine the generators, motors, switchgear, cables and fuses? No

Has the insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? No

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

NOW DONE FOR BS.

The steam and water drums of both boilers examined internally and externally and found same generally in good condition. Tubes examined internally and externally and a number removed from boilers for examination (See Remarks). All safety valves and mountings opened up for examination and found or placed in good condition. Both boilers examined under steam and their safety valves adjusted to the safe working pressure. The oil fuel installation has been generally examined under working conditions and found efficient, pipes, valves and connections are in a clean oil-tight condition and the whole area is well lighted.

Remarks. An amount of scale was found present in the water drums and in the tubes and the Chief Engineer stated that this was due to a slight density in the feed water caused by a leaking main condenser. The condenser has now been placed in an efficient condition. Between the tube ends of the steam drums some active "wastage" noted under scale also the back plates of the water drums of both boilers are wasted, this wastage is stated to be of old standing and at present is inactive. (P.T.Overleaf)

General Observations, Opinion, and Recommendation: The machinery of this vessel, so far 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.)

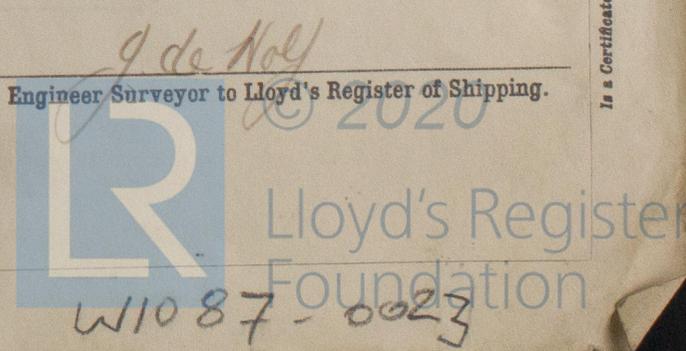
is in good condition and eligible in my opinion to remain as at present classed, with fresh records of " BS 1,48 and CL 1,48 "

(Copy of Cert B1 herewith attached)

Survey Fee (per Section 29) Dkg IE 4.000 Fees applied for 26.1.19 48  
BS & repairs IE 26.000  
TS LE 7.000 Received by me, 28.1.19 48  
& Subs LE 1.000

Committee's Minute WED 31 MAR 1948

Signed B.S. 1.48  
J. 1.48



Inherit Character of Ship and Machinery precisely as in the Register Book.

If so, to be sent to \_\_\_\_\_

Steel Sc. Steamer " EMPIRE REST "

Remarks (Contd)

A number of tubes were withdrawn from each boiler and cut open and a heavy scale deposit was in evidence and in my opinion the previous recent troubles with the tubes of these boilers have been due to impure feed water.

NOW DONE FOR CL

Tail shaft withdrawn inboard, key removed, cone and continuous liner examined and found in good condition.

NOW DONE FOR DOCKING.

Vessel placed in dry dock. Propeller examined and found in good condition.

WEAR & TEAR REPAIRS

After Boiler Twenty six tubes (1 1/2" dia.) renewed. Two lengths of internal feed pipe renewed. Upon completion of repairs boiler tested to 360 lbs water pressure and found good.

Forward Boiler Six (1 1/2" dia) tubes renewed.

Stern Tube Five lignum vitae strips to bottom half of stern bush renewed.

*J.H.*

*(Faint, mirrored text from reverse side of page)*

(Copy of Cert BI herewith attached)

DKK 154.000  
TS 15.000  
28.1.48  
28.1.48