

Report of Survey for Repairs, &c., of Engines and Boilers.

(Received at London Office)

TUE FEB 14 1922

Date of writing Report 30th JANUARY 1922 When handed in at Local Office

No. in Reg. Book. Survey held at HAMBURG

37168 on the Machinery of the Wood, Iron or Steel T.W. S.C. 47 N° 1 "EMPEROR OF SCOTLAND" Master ex KAISERIN AUGUSTA VICTORIA.

GROSS 24551
tonnage Net 14847Registered Horse Power 1810
No. of Main Boilers 8
No. of Auxiliary Boilers 1
steam Pressure—
in Main Boilers 200
in Auxiliary Boilers

Last Report No. Port

Particulars of Examination and Repairs (if any) P.S. LOND. REP. ALLEN

Priodical 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.

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?

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

Aux

Do. " "

Is was not done, state for what reasons?

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?

the Surveyor examine the Safety Valves of the Main Boiler?

Aux

the Surveyor examine the Safety Valves of Auxiliary Boiler?

Aux

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

To what pressure were they afterwards adjusted under steam?

yes

, and of the Auxiliary Boiler?

yes

the Surveyor examine the drain plugs of the Main Boilers?

yes

, and of the Auxiliary Boiler?

yes

the Surveyor examine all the mountings of the Main Boilers?

yes

, and of the Auxiliary Boiler?

yes

screw shaft now been drawn and examined?

no

Is it fitted with continuous liner?

Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated?

shaft now been changed? If so, state reasons

no

Has it a continuous liner?

Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated?

shaft now fitted new?

no

Pis 7 3/4" & Str. 3 1/16"

the distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft?

Survey is not complete state what arrangements have been made for its completion and what remains to be done?

In Dry Dock examined propellers, propeller shaft, fastenings of sternbushes & sea formations and found in order.

Examined the Main & auxiliary Boilers internally & externally, their mountings, up and down & found all of these Boilers in order after the following repair had been carried out:

42 turners fitted new (all flues & top of 2 furnaces in N° 6 boiler and 4 in N° 7 boiler and all furnaces in S.E. Boiler); the covers now stay in combustion chamber where burners have been fitted new, a number of plain & stay tubes renewed, all mountings dressed up. On each boiler 2 sets of valves of water gauges stand pipes (one fore & one aft) replaced by cocks as required by the Rules. All Boilers tested to 320 lbs hydraulic pressure.

See Continuation.

General Observations, Opinion, and Recommendation:

(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, B.S. 9,11, B&W.S. 9,11, or P.D.M.C. 9,11, 140 lb., F.D., &c.)

The Machinery of this vessel is now in good & efficient condition eligible in my opinion for records "L.N.G. 1,22" and "Fitted for oil fuel 1,22. F.P. above 150° F."

Fee (per Section 28).

Fee applied for

Total Damage or Repair Fee (if any) (per Section 28.)

Received by me

Travelling Expenses (if chargeable).

28/3/22 866

Committee's Minute

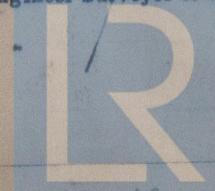
L.D. 1.22

Losses (P/C.L.)

Lloyd's Register Foundation

Signed

CERTIFICATE WRITTEN



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S.S. "EMPEROR OF SCOTLAND"

Alterations: All boilers are fitted for burning oil fuel. The oil fuel installation (Vulcan System) now fitted, including settling tanks, sludge & overflow tanks, deep tank bunkers, air & over-flow, draining pipes, pneumaticators, heating plants, observation tanks, pumps, pumping arrangements headers, strainers. Quick closing valves have been made in accordance with the approved plans and the Society's letter.

E - 30/8/21 - 14/9/21 - 7/10/21 - 27/10/21 - 13/12/21 - 3/1/22. along with pumps and otherwise in conformity with the requirements of Section 49 of the Rules. The forehold ventilation is satisfactory, the fire extinguishing apparatus, are of approved type (fire foam & in addition there is connection to steam lines). I attended to a trial trip, where the whole fuel oil installation has been tested under working conditions & where it has given full satisfaction.

Upon completion of repairs & alterations all boilers have been examined under steaming and were found tight. The safety valves have been adjusted to 213 lb. The thickness of adjusting washers is as follows:

Forward Boilers.

Aft. Boilers.

Boilers:	Port	Port Centre	Star. Centre	Star. S. lb.		Port	Port Centre	Star. Centre	Star. S. lb.
1. Port	26 $\frac{1}{4}$ in.	24.5 $\frac{1}{4}$ in.	24.5 $\frac{1}{4}$ in.	25.2 $\frac{1}{4}$ in.		28 $\frac{1}{4}$ in.	25.5 $\frac{1}{4}$ in.	29 $\frac{1}{4}$ in.	35.5 $\frac{1}{4}$ in.
Centre	27 "	23.5 "	22 "	28 "		30 "	23 "	31.5 "	30.5 $\frac{1}{4}$ in.
2. Star.	24 "	18.5 "	25 "	28.2 "		30 "	27 "	26 "	31 "
Port	28.5 "	25.2 "	24.8 "	28.5 "		29.8 "	25 "	30 "	35 "
Centre	24.5 "	26 "	26 "	29. "		30.5 "	25 "	35 "	32 "
Star.	24.5 "	18 "	24.8 "	31 "		31.5 "	25.5 "	29 "	30 "

Avx. Boiler. Port = 28.8 $\frac{1}{4}$ in. - Centre 27.7 $\frac{1}{4}$ in. - Star. 25.7 $\frac{1}{4}$ in.

Repair & Renewals to machinery. 7. P. cylinders rebored, new piston & springs fitted, piston rods skinned up, new metallic glands fitted.

2 new evaporators fitted in engine room, evaporators tested under steam, safety valve adjusted to 28 lb.

Feb 30/1/22. 