

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

(Received at London Office)

Date of writing Report Apr 24 1922 When handed in at Local Office Apr 25 1922 Port of Toronto

No. in Reg. Book. 29219 Survey held at Sarnia Date, First Survey Jan 20.22 Last Survey Apr 13 1922 (No. of Visits 6)

on the Machinery of the Wood Iron Steel S.S. ROYALITE Master

Tonnage Gross 2052 Net 1542 Vessel built at Collingwood. By whom Collingwood S.B. Co. Ltd. When 1916 6

Registered Horse Power 96 Engines made at Collingwood By whom Collingwood S.B. Co. When 1916

No. of Main Boilers 1 Boilers, when made (Main) 1916 (Donkey) 1916

No. of Donkey Boilers 1 Owners IMPERIAL OIL & LTD Port SARNIA Voyage Gr Lakes

Steam Pressure in Main Boilers 160 If Surveyed Afloat or in Dry Dock afloat at Sarnia Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

in Donkey Boilers 100 Last Report No. 1325 Port Halifax

Particulars of Examination and Repairs (if any) Boilers Surveyed

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

Do. " " Donkey " " No

If this was not done, state for what reasons? Donkey boiler too small

And what parts of the Boilers could not be thus thoroughly examined? All parts examined

Also 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? Donkey Boiler examined internally through openings

the Surveyor examine the Safety Valves of the Main Boiler? Yes To what pressure were they afterwards adjusted under steam? 160

the Surveyor examine the Safety Valves of Donkey Boiler? Yes To what pressure were they afterwards adjusted under steam? 100

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

the Surveyor examine the drain plugs of the Main Boilers? Yes, and of the Donkey Boiler? Yes

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

screw shaft now been drawn and examined? No Is it fitted with continuous liner?  or two liners?  or is it without liners?

shaft now been changed?  If so, state reasons Yes

shaft now fitted new?  Has it a continuous liner?  or two liners?  or is it without liners?

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

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

Thrust shaft collars faced in lathe and shoes reinstalled

Air pump board out and new bucket fitted

The drain from heater coil in fuel tank has been led overboard

The feed water filter has been placed in effective condition

and special filtering material arranged for

Arrangements have been made so that the feed water heater may be properly flushed out under pressure

and kept free from deposits

The furnaces in main boiler were found to be down about 1", and these were pressed into shape

Strengthening rings (3x3x 1/2 L) have been fitted, at 3 Equal

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. 9.09, B.&H.S. 9.09, or L.M.C. 9.09, 140 lb., F.D., &c.)

The boilers are in good and efficient condition, and eligible to remain as classed, with record B.S. 4.22, and the pressure allowed on main boiler increased to 180 lbs.

Survey Fee (per Section 28) \$ 25.00 Fees applied for Apr 25 1922

Special Damage or Repair Fee (if any) £ 50.00 Received by me, A. Scott

Travelling Expenses (if chargeable) £ 45.50 19

Committee's Minute TUE. MAY. 16 1922 J.M.F.

Assigned B.S. 4.22

Wolepesson, York

FRI. 7 JUL. 1922  
TUE. 4 MAR. 1923

A. Scott



Lloyd's Register  
005756-005778 Foundation

The survey also been held on ship?

The Surveyor are requested not to scribble on or below the space for Committee's Minute.

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

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

points in the length of each furnace. These rings are fitted circumferentially, and secured to the furnaces by studs, allowing one inch water space between rings and furnaces.

Centre Combustion Chamber. The Chamber side plates have been renewed for a distance of 6 feet above the wrapper sheets, replacing the old plates which were badly bulged.

Screwed stays in way of new plates renewed.

There is still a bulge in the C.C. back plate, but this was specially stayed when last surveyed and is in good condition.

Two bottom rows of tubes cut out and renewed

About 20 rivets in furnace flange renewed

S. Comb. Chamber.

There is a slight bulge in C.C. back plate, but not important.

Two bottom rows of tubes cut out and renewed.

About 20 rivets in furnace flange renewed.

P. Comb. Chamber.

There is a slight unimportant bulge in C.C. back plate.

Two rows of tubes cut out and renewed

About 20 rivets in furnace flange renewed.

The boiler has been thoroughly cleaned, and after the repairs were completed the main boiler was tested under hydraulic pressure to 270 lbs.

A letter dated Feb 28.22, from the owners is attached to this report, in which request is made that the original pressure of 180 lbs be allowed.

In view of the repairs now carried out, the hydraulic test, and the present condition of the boiler, it is recommended that this request may safely be complied with.

Pending the approval from Ottawa, of the Canadian Government Inspectors recommendation that the pressure be increased to 180 lbs, the safety valve has been set under steam at 160 lbs

N.B.—If this Report is copied by Copying Press, especial care must be taken that the copying paper is not so much dampened as to spread the ink, or to cause it to show through to the other side.

IF THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

B.S. due 6.22. now held after grinding  
Furnaces fired & combustion chambers  
repaired & tubes tested.

In addition of original  
pressure.

It is submitted that  
this vessel is ready for  
THE REGISTER. B.S. 4.22  
John H. Spence 180 lbs

11/6/22.

