

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

(Received at London Office)

Date of writing Report

When handed in at Local Office

12th. May, 1920. Port of Cardiff

Survey held at

Cardiff

Date, First Survey

10th. Mar.

Last Survey

5th. May, 1920

on the Machinery of the Wood, Iron or Steel

S. S. "Sommerville"

Master J. Nelson

Gross 5854
Net 3665

Vessel built at

Plymouth

By whom

A. K. G. "Hess"

When

1914

Engines made at

80

By whom

80

When

1914

Boilers, when made (Main)

1914

(Donkey)

1914

Owners

The Shipping Controller (The Lloyd's Reg. Co. Ltd.) Port London

Voyage Las Palmas

If Surveyed Afloat or in Dry Dock

Commercial Dry Dock

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

st Report No.

Port

Particulars of Examination and Repairs (if any) L. H. C.

Periodical Surveys, when held, must be reported in detail and serially in the terms of the Rules. State clearly the nature of Repairs, if any, and, in detail, the nature and extent of examinations and subsequent repairs. Repairs on point of damage (the cause of which must be stated) should be separated from repairs due to other causes; and repairs being detailed in the body of the report, should be briefly summarised at the end of the report. State also the names 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?

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

Do. " Donkey " " "

Is was not done, 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?

Did the Surveyor examine the Safety Valves of the Main Boiler?

To what pressure were they afterwards adjusted under steam?

190 lbs per sq. in.

Did the Surveyor examine the Safety Valves of Donkey Boiler?

To what pressure were they afterwards adjusted under steam?

120 lbs per sq. in.

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

and of the Donkey Boiler?

Did the Surveyor examine the drain plugs of the Main Boilers?

and of the Donkey Boiler?

Did the Surveyor examine all the mountings of the Main Boilers?

and of the Donkey Boiler?

Has screw shaft now been drawn and examined?

Is it fitted with continuous liner?

or two liners?

or is it without liners?

Has shaft now been changed?

If so, state reasons

Has the shaft now fitted new?

Has it a continuous liner?

or two liners?

or is it without liners?

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

1/16"

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

Survey Complete

As per instructions in Secretary's letter above quoted, now done.
Examined cylinders, pistons, slide valves, crank, thrust, intermediate and screw shaft, propeller, stern bush, sea cocks and valves and their fastenings, bilge injection valve, bilge suction and roses, condenser, all pumps and valves, bed plate, main steam pipes, auxiliaries, steam steering engine, windlass, main boilers and donkey boiler thoroughly together with their safety valves mountings and doors and found to be in good order as under,
H.P. cylinder stuffing box renewed
M.P. piston placed in lathe, machined & fitted with new packing rings, ridge chipped off cylinder.
L.P. piston packing ring renewed.

P.T.O.

General Observations, Opinion, and Recommendation:— The machinery of this vessel

(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.&M.S. 9, 11, or L.M.C. 9, 11, 140 lb., E.D., &c.)

is now in good and safe working condition and eligible in my opinion to be classed with the notation L.M.C. 5-20 and L.B. 5-20 in the Register Book

Survey Fee (per Section 28) £ 5 : 10 : 0

Total Damage or Repair Fee (if any) £ : : :

(per Section 28.)

Travelling Expenses (if chargeable) £ : : :

Fees applied for

12th. May, 1920

Received by me,

15.5.19 20/20/20

Committee's Minute

Assigned

MACHINERY CERT. WRITTEN.

TUE. AUG. 31 1920

L.M.C. 5-20

FRI. 17 DEC. 1920

James Murdoch

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

MSO-00094

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

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

Eccentric Straps taken to works, top halves reinstalled, machined & refitted, troughs supplied & fitted and all valve gear connected as before.

1. ~~Head~~ ^{Head} box renewed and bilge pipes overhauled.

Ballast Donkey Pump, Valves and seats machined & refitted, piston valve machined & fitted with new rings, donkey pump generally overhauled & put in order.
No. 1. ~~Head~~ ^{Head} Pump. Steam Valve chamber bored out & new valve fitted, Slide Valve machined & refitted, Piston machined & fitted with new rings, pump generally overhauled and put in order.

No. 2. ~~Head~~ ^{Head} Pump. Piston machined & fitted with new rings & pumps generally overhauled & put in order.

Evaporator overhauled, stop valve & seat renewed.

Dynamics Engine overhauled and put in order.

Turning Engine overhauled, fitted with new worm wheel & put in order.

Main Boiler mountings, Starboard Boiler water gauge cock, shell bored out and new plug fitted, drain cocks renewed & fitted with new unions, auxiliary stop valves and seats machined and refitted, main check valve seats machined & refitted, auxiliary check valve and seat machined & refitted.

Centre Boiler. Diamond blower steam pipe & guide repaired & refitted.

All valves & seats overhauled, valves ground in & refitted, Superheater disconnected and tubes permanently plugged up.

Port Boiler. Auxiliary check valve and seat machined & refitted.

Diamond blower pipe & guide repaired & refitted, 3 Steam Gauges renewed.

Donkey Boiler. Steam Gauges renewed, water gauge drain cocks and pipes renewed.

Engines and Boilers tested under steam and found
Satisfactory

James Murdoch.

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