

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

No. 31217

Writing Report

14. 5.

33.

When handed in at Local Office

19 MAY 1933

(Received at London Office

20 MAY 1933

Port of

Sunderland

Survey held at

Sunderland

Date, First Survey

Jan 5

Last Survey

May 17

1933

(No. of Visits

29)

on the Machinery of the Wood, Iron or Steel

S/S "LLANARTH"

Cross

3033

at

3018

Vessel built at

Sunderland

By whom

Bastren & Co. Ltd

When

1929.3.

Engines made at

Stockton

By whom

Blair & Co. (1926) Ltd

When

1929.

Boilers, when made (Main)

1929.

(Donkey)

1929.

Owners

Pictin & Co. Ltd

Owners' Address

(if not already recorded in Appendix to Register Book.)

Managers

Evan Thomas Radcliffe & Co.

Port

London

Voyage

If Surveyed Afloat or in Dry Dock

Boat

(State name of Dock.)

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

CHARACTER.
* 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)

Port No.

Port

Damage L.M.C.

Years of Examination and Repairs (if any)

T.S. Alterations

+100A.1.

+LMC 3.29

veys, when held, must be reported in detail and serially in the terms of the Rules. State clearly the nature and extent of the nature and extent of Examinations and subsequent Repairs. Repairs on the cause of which must be stated should be separated from Repairs due to other causes; and details of any letters respecting this case.

es where the Surveyor has not made a special damage report he is required to state whether he services for this purpose, and why they were declined?

report made by anyone else? If so by whom?

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

"

Donkey "

"

"

ne, state for what reasons?

the Boilers could not be thus thoroughly examined?

means, in the absence of internal examination, were adopted by the

examine the Safety Valves of the Main Boiler?

examine the Safety Valves of Donkey Boiler?

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

examine the drain plugs of the Main Boilers?

examine all the mountings of the Main Boilers?

how been drawn and examined?

en changed? If so, state reasons

if fitted been previously used?

Has it a continuous liner?

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

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

ot complete, state what arrangements have been made for its completion and what remains to be done

working fit (Bush rewooded).
complete.

vessel placed in dry dock for examination after damage sustained by grounding off the Llanedochy Bank (R. H. H.) on the 3rd Jan. 1933 whilst proceeding Buenos Aires towards Hamburg & the Propeller submerged object whilst engine running astern in order to refloat the vessel. In further particulars see Rep. Log.

Examination made of Sea Connections & outside fastenings.

P.T.O.

Observations, Opinion, and Recommendation:—

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 the action 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, machinery of this vessel is in order & safe working condition & eligible in my opinion to remain as Classed fresh record L.M.C. 3.33 & notation "Tail Shaft Sec. 3.33."

H.P. Cylinder diameter amended to 26"

LM.C. 13.8.0

Damage (M) 8.8.0

or Repair Fee (if any) 10.8.10

Superheaters 10.16.0

ee's Minute

FRI. 2 JUN 1933

+ LMC 3.33

CERTIFICATE WRITTEN

8.6.33

J. H. Fraser

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

W57-0113

S.S. "LLANARTH" Com^d

Tail Shaft drawn when vessel was afloat, examined in lathe & found in order.

Propeller found to have one blade broken off at root. A new Propeller now fitted in lieu.
Stern bush examined & renewed on lower half.

On account of damage examination made of the following parts of machinery: Cylinders, pistons, slides, rods, spindles, Crank, thrust & intermediate Shafting & bearings throughout; Condenser; air, Circulating, feed & bilge pumps & their valves; ballast - general service & donkey boiler feed pumps & their valves.

Damage repairs to machinery:

Feed pump rams renewed, neck & gland bushes machined to suit.

Bilge pump rams skimmed up, neck & gland bushes renewed.

Air pump head foot & bucket valves & seats skimmed up.

H.P. (top half), M.P. (bottom half) & L.P. (top half) bottom end bearings re-metalled & refitted.

Two broken studs in stern gland renewed.

Condenser fitted out for cleaning.

In L.M.C.: In addition to the foregoing examination of machinery parts examination made of Pumping arrangement, steering engine & windlass.
Electric installation examined generally & tried under working conditions satisfactorily.

Main & Donkey Boilers examined internally & externally with mountings doors & fastenings.

Repairs: Mountings overhauled.

Alterations: A new H.P. Cylinder of Lentz type with poppet valves fitted in lieu of existing Cylinder. New cylinder made 26" diameter.
Valve gear altered on H.P. to suit poppet valve gear. Eccentric sheaves renewed & straps machined out to suit same.

See Continuation.

S.S. "LLANARTH"

Alterations Com^d

Condenser tube plate holes plugged as necessary for new arrangement of tubes, repacked & afterwards tested satisfactorily.

New Exhaust Steam (direct Contact) feed heater, and surface live steam feed heater new weir.
Dependent feed pump (4" x 9 1/2" x 21"), Cascade feed filler tank & vacuum Augmentor fitted.
All new feed piping, where fitted, tested as per Rules satisfactorily.

Superheaters:

Smoke tube type Superheater System fitted to main boilers. Certificates of test for elements & headers attached herewith.

All Superheater Steam mountings, pipes & branches (steel) tested as per Rules satisfactorily.

All main Steam pipe line (steel) renewed & tested as per Rules satisfactorily.

Superheater system tested by hydraulic pressure of 360 lbs. after installation.

On completion of the work the machinery was tried under working conditions alongside wharf satisfactorily. Boilers & superheaters examined under steam & safety valves of all boilers & superheaters adjusted to working pressure as above.

[Signature]