

5-JUL-1971

for which vessel is intended FOREIGN OPEN SEA SERVICE

Foundation

AIR RECEIVERS:—Have they been made under survey.

YES.

State No. of report or certificate.

Is each receiver, which can be isolated, fitted with a safety valve as per Rule.

FUSIBLE PLUG.

Can the internal surfaces of the receivers be examined and cleaned.

YES.

Is a drain fitted at the lowest part of each receiver.

YES.

Injection Air Receivers, No.

Cubic capacity of each.

Internal diameter.

thickness.

Seamless, welded or riveted longitudinal joint.

Material.

Range of tensile strength.

Working pressure.

Starting Air Receivers, No.

TWO.

Total cubic capacity.

350 CU. FT.

Internal diameter.

4'-6"

thickness.

1 3/8"

Seamless, welded or riveted longitudinal joint.

F. WELDED.

Material.

M. STEEL.

Range of tensile strength.

SHELL. 28/32 T/a"

Working pressure.

IS A DONKEY BOILER FITTED.

YES.

If so, is a report now forwarded.

YES (NWC. 109025).

Is the donkey boiler intended to be used for domestic purposes only.

No.

PLANS. Are approved plans forwarded herewith for shafting.

(If not, state date of approval)

YES.

Receivers.

YES.

Separate fuel tanks.

Donkey boilers.

General pumping arrangements.

SEE SHIP REPORT.

Pumping arrangements in machinery space.

YES.

Oil fuel burning arrangements.

YES.

Have Torsional Vibration characteristics been approved.

YES.

Date of approval.

7.6.51.

SPARE GEAR.

Has the spare gear required by the Rules been supplied.

YES.

State the principal additional spare gear supplied.

AS PER ATTACHED SHEETS.

NOTE:-

DOXFORD-BIBBY DETUNER:- FIXED MEMBER $WK^2 = 6.73 \text{ TNS FT.}^2$

FLOATING " $WK^2 = 17.0 \text{ " "}$

The foregoing is correct description, and the particulars of the installation as fitted are as approved for the TORSIONAL VIBRATION CHARACTERISTICS.

R. & W. HAWTHORN, LESLIE & CO. LIMITED.

Manufacturer.

Dates of Survey while building: During progress of work in shops - (1950) Nov. 23 (1951) Nov. 6, 7, 8, 12, 13, 14, 15, 20, 22, 23, 26, 27, 28, 29, 30, DEC. 4, 6, 11, 14, 15, 20, 21, 24, 28 (1952) JAN. 2, 4, 8, 10, 14, 15, 16, 18, 22, 23, 24, FEB. 1, 5, 13, 15, 19, 21, 25, 29, MAR. 10, 12, 14, 18, 19, 20, 21, 26, 27, 28, APR. 2, 9, 15, 18, 21, 23, 25, 28, 29, MAY 1, 2, 7, 13, 21, 22, 23, 30, JUNE 3, 4, 6, 9, 10, 13.

Total No. of visits.

93.

Dates of examination of principal parts: Cylinders - 26.11.51 Etc. Covers - Pistons - 14.11.51 Etc. Rods - 14.11.51 Etc. Connecting rods - 6.11.51

Crank shaft - 20.11.51. Flywheel shaft - Thrust shaft - Intermediate shafts - 14.11.51 Etc. Tube shaft -

Screw shaft - 9.10.51 & 14.11.51 Propeller - 23.11.51 Stern tube - 8.11.51 & 13/51 Engine seatings - 18/4/52 Engine holding down bolts - 18/4/52

Completion of fitting sea connections - 27.11.51 Completion of pumping arrangements - 10/6/52 Engines tried under working conditions - 10/6/52

Crank shaft, material - F.O.H.I.S. Identification mark - WHF. 12.7.51. Flywheel shaft, material - Identification mark -

Thrust shaft, material - F.O.H.I.S. Identification mark - WHF. 12.7.51. Intermediate shafts, material - F.O.H.I.S. Identification marks - SEE U

Tube shaft, material - Identification mark - Screw shaft, material - F.O.H.I.S. Identification mark - HAL. 14.6.51

Identification marks on air receivers - LLOYDS TEST. TP. 950 LBS. WP. 600 LBS. AB. 10.1.52. INTER. SHAFTS. No. F.8997. HAL. 2.7.51. No. 8998. HAL. 28.6.51

Welded receivers, state Makers' Name - R & W. HAWTHORN LESLIE & CO. LD. NEWCASTLE ON TYNE.

Is the flash point of the oil to be used over 150°F - YES.

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with - YES.

Description of fire extinguishing apparatus fitted - AS PER ATTACHED SHEET.

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo - If so, have the requirements of the Rules been complied with -

If the notation for ice strengthening is desired, state whether the requirements in this respect have been complied with - NOT DESIRED.

Is this machinery duplicate of a previous case - No. If so, state name of vessel -

General Remarks (State quality of workmanship, opinions as to class, Speed restrictions, &c.)

The machinery of this vessel has been constructed and installed under Special Survey in accordance with the Approved Plans, Rules of the Society, and Secretary's letters. The materials and workmanship are good.

On completion, the main and auxiliary machinery were examined under working conditions both alongside quay and under full power condition at sea, with satisfactory results, and is in our opinion, eligible for classification with the record of + LMC. 6.52. TS-CL: 2 DB-180 LBS/ft.

"MAIN ENGINES NOT TO BE OPERATED CONTINUOUSLY BETWEEN 44 & 54 R.P.M."

AGREED FEE:- ENGINE 100% OLD FEE. INSTALL 25% OLD, 75% NEW. The amount of Entry Fee ... £358-10-0

Special ... E.W. £ 25-10-0 When applied for - 4 JUL 1952

TWO AIR RECEIVERS 12-0-0 When received - 19.

Donkey Boiler Fee... £ Travelling Expenses (if any) £

Committee's Minute - FRI 1 AUG 1952

Assigned - + LMC 6.52 Oil Eng (with torsional endorsement)

C.L. 2DB 180lb

Engine Surveyors to Lloyd's Register of Ship

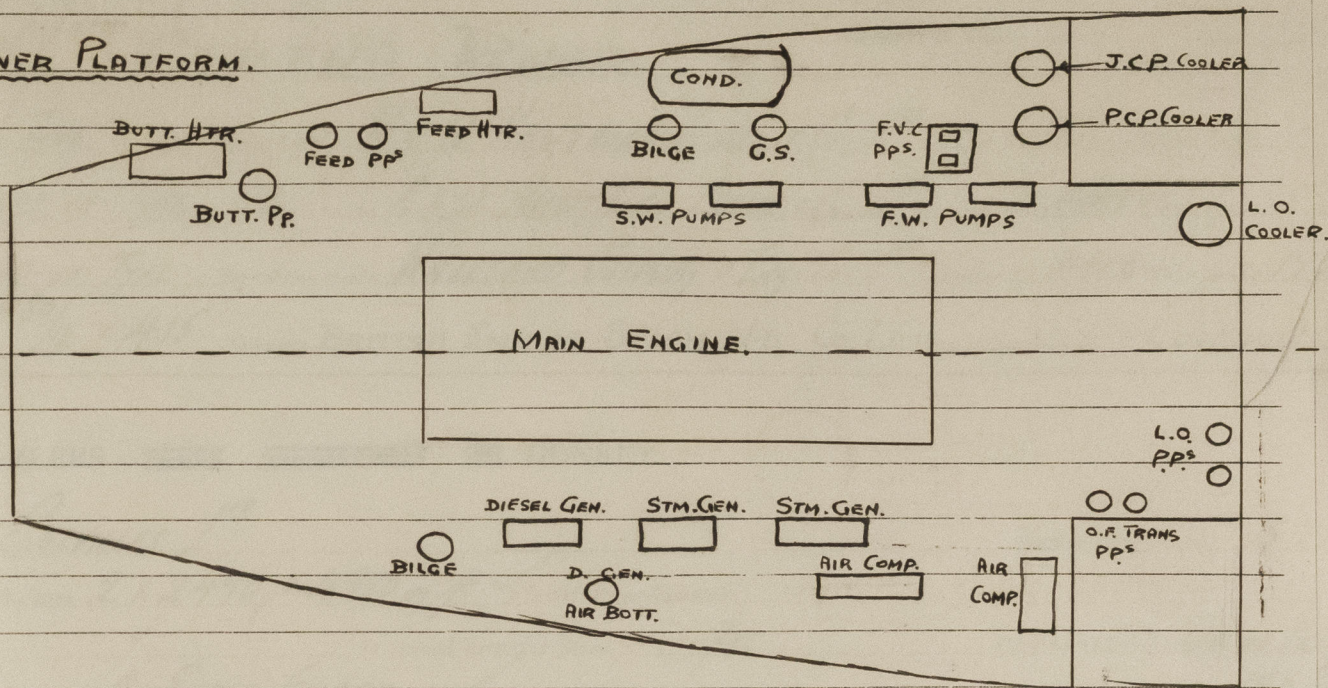
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Lloyd's Register

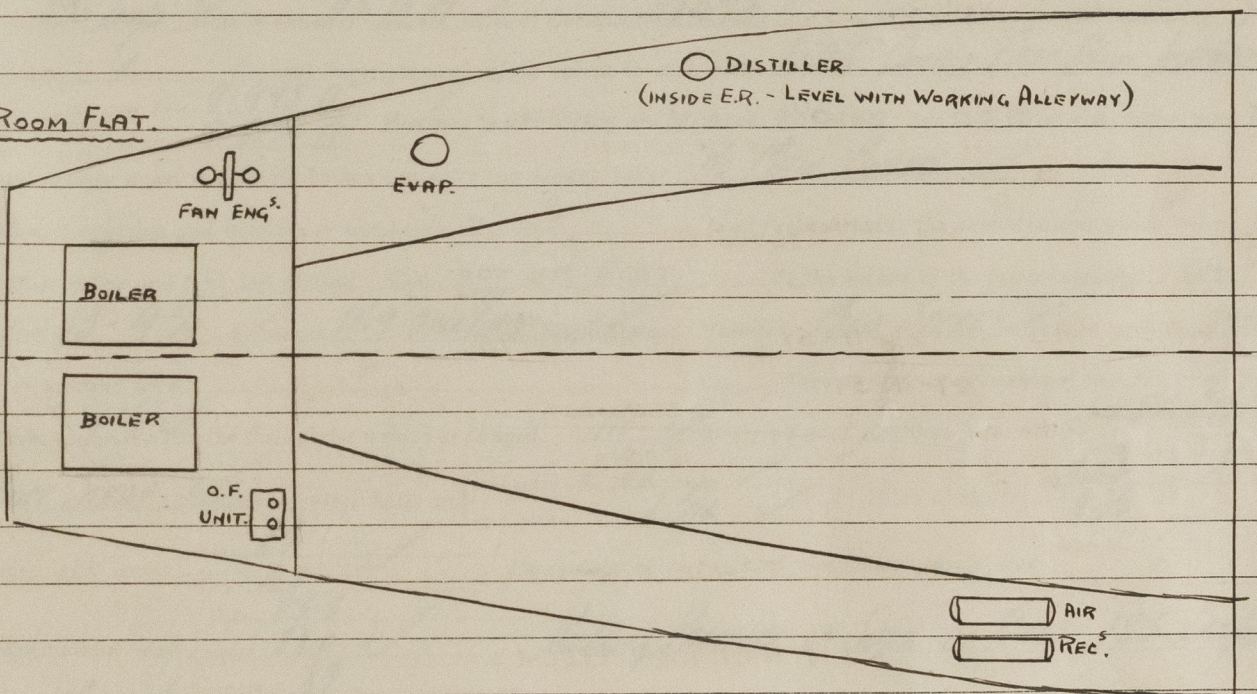
Foundation

M.V. "CLUTHA RIVER."
ARRANGEMENT OF AUXILIARIES

LOWER PLATFORM.



BOILER ROOM FLAT.



T. Shonis

SURVEYOR TO LLOYD'S REGISTER.
NEWCASTLE-ON-TYNE.



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Lloyd's Register
Foundation