

Rpt. 4.

Elec LIGHT.

Bel. 14660 No. 116772

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office.

Date of writing Report 3 JUL 1948 When handed in at Local Office 3 JUL 1948 Port of London
No. in Survey held at Bedford Date, First Survey 23 January 1948 Last Survey 18 June 1948
Reg. Book (Number of Visits 5)
on the Tons { Gross
Net
Built at By whom built Harland & Wolff. Yard No. 1365 When built 1948
Engines made at Bedford. By whom made W. Hallen Sons & Co Bedford Engine No. R2/66312 When made 1948
Boilers made at By whom made 2-75kw. Dyn. Engines Boiler No. When made
Registered Horse Power 6-3 Owners Port belonging to
Nom. Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
Trade for which vessel is intended

ENGINES, &c.—Description of Engines Electric light. 45kw. Revs. per minute 500.
Dia. of Cylinders 10" & 15" Length of Stroke 62" No. of Cylinders 2. No. of Cranks 2.
Crank shaft, dia. of journals 3 3/8" at Fly End. Crank pin dia. 3 1/2" Mid. length breadth 5 1/2" Thickness parallel to axis
3 3/4" at middle Crank webs shrunk Thickness around eye-hole
& Gov. End. Mid. length thickness 2 3/8" as per Rule
Intermediate Shafts, diameter as fitted Thrust shaft, diameter at collars as fitted
as per Rule as fitted
Tube Shafts, diameter as fitted Screw Shaft, diameter as fitted Is the { tube } shaft fitted with a continuous liner {
as fitted as fitted screw
Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as per Rule Is the after end of the liner made watertight in the
as fitted as fitted propeller boss
If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner
If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive
If two liners are fitted, is the shaft lapped or protected between the liners Is an approved Oil Gland or other appliance fitted at the after end of the tube
at If so, state type Length of Bearing in Stern Bush next to and supporting propeller
Propeller, dia. Pitch No. of Blades Material whether Moveable Total Developed Surface sq. feet
Feed Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work
Bilge Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work
Feed { No. and size Pumps connected to the { No. and size
Pumps } How driven Main Bilge Line { How driven
Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size
Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected both to Main Bilge Pumps and Auxiliary
Bilge Pumps:—In Engine and Boiler Room
In Pump Room In Holds, &c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges,
No. and size Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes
Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges
Are all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Overboard Discharges above or below the deep water line
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
What Pipes pass through the bunkers How are they protected
What pipes pass through the deep tanks Have they been tested as per Rule
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers
Which Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters
No. and Description of Boilers Working Pressure
IS A REPORT ON MAIN BOILERS NOW FORWARDED?
IS A DONKEY BOILER FITTED? If so, is a report now forwarded?
Can the donkey boiler be used for other than domestic purposes
PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
(If not state date of approval)

Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements
1 Set. SPARE GEAR for 2 Engines
Has the spare gear required by the Rules been supplied 1- H.P. Piston Rod. 2 Sets Carbon Brushes
State the principal additional spare gear supplied 1- L.P. Piston Rod. 1 Line brush Holders.
1- H.P. Piston & Ring
1- L.P. " " "
1- H.P. Ring.
1- L.P. Ring.
2 Pairs Crosshead Brasses. Bolts & Nuts
2 " Conn Rod " " "
1 Set Gov. Springs.
2 Main Bearing Bolts & Nuts
6- Coupling bolts. Nuts & Split Pins.

The foregoing is a correct description.

H. Pledge for W. Hallen Sons & Co Ltd Bedford. Manufacturer.

004534-004540-0158

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Lloyd's Register
Foundation

During progress of work in shops - - { 1948 JAN 23, MAR 2, MAY 28, JUNE 15, 18.
Dates of Survey while building {
During erection on board vessel - - - {
Total No. of visits 5 (In Reps)

Dates of Examination of principal parts—Cylinders 28.5.48 Slides 28.5.48 Covers 28.5.48
Pistons 23.1.48 Piston Rods 23.1.48, 23.3.48, 18.6.48 Connecting rods 23.1.48
Crank shaft 18.6.48 Thrust shaft ✓ Intermediate shafts ✓
Tube shaft ✓ Screw shaft ✓ Propeller ✓
Stern tube ✓ Engine and boiler seatings ✓ Engines holding down bolts ✓
Completion of fitting sea connections ✓
Completion of pumping arrangements ✓ Boilers fixed ✓ Engines tried under steam ✓
Main boiler safety valves adjusted ✓ Thickness of adjusting washers ✓
Crank shaft material Cast Steel Identification Mark 1-620 L. R. A.D. 18.6.48 (P) Thrust shaft material Identification Mark 1-976 L. R. 18.6.48 (P)
Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓
Screw shaft, material ✓ Identification Mark ✓ Steam Pipes, material ✓ Test pressure ✓ Date of Test ✓
Is an installation fitted for burning oil fuel ✓ Is the flash point of the oil to be used over 150° F. ✓
Have the requirements of the Rules for the use of oil as fuel been complied with ✓
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 ✓
Is this machinery duplicate of a previous case? yes If so, state name of vessel.

General Remarks (State quality of workmanship, opinions as to class, &c.) The Steam Generator sets have been constructed under special survey in accordance with the requirements of the Rules and approved plans; the steel was made approved by the Committee; the workmanship is good, and on completion the generator sets were tested upon the bench under full and overload conditions with satisfactory results.

The sets have been dispatched to Belfast for fitting on board the vessel.
These sets have been installed in the vessel and examined working under full load conditions & found in order.
A. J. T. [Signature]

The amount of Entry Fee 2 Sels £ 8 : 0 :
Special ... £ : :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : 10/0 :
When applied for, 1948
When received, 19.

Date FRI. 17 DEC 1948
Committee's Minute Su F. E. mch. apt.

R. W. Coomber
Engineer Surveyor to Lloyd's Register of Shipping.