

Mdb. Rpt. 20274.

No. 124900

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

15 SEP 1953

Oct. 12th 1953. When handed in at Local Office Oct. 12th 1953. Port of London.
 By whom built *CYGNUS* Date, First Survey Feb. 13th Last Survey Sept. 29th 1953.
 (Number of Visits 9)

By whom built *Lunnis S.B. Co. Ltd.* Yard No. 463. Tons { Gross Net
 When built

at BEDFORD By whom made W.H. ALLEN, SONS & CO. LTD. Engine No. R3/48876 When made 1953

at By whom made Boiler No. When made

Separate Power 100 I.H.P. (EACH) Owners. Port belonging to

Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Is vessel intended

Description of Engines 2-9" & 14" x 6 1/2" STROKE DRIVING 60 K.W ALLEN DYNAMOS. Revs. per minute 500

Length of Stroke 6 1/2" No. of Cylinders 2 No. of Cranks 2

as per Rule 3.75-3.80 Crank pin dia. 3.5-3.80 Mid. length breadth 5 1/2" Thickness parallel to axis

as fitted 3.875-3.90 Crank webs 2 1/8" & 2 3/8" shrunk Thickness around eye-hole

as per Rule Thrust shaft, diameter at collars as fitted

as per Rule Screw Shaft, diameter as fitted Is the tube screw shaft fitted with a continuous liner

as per Rule Thickness between bushes as fitted Is the after end of the liner made watertight in the

thickness in way of bushes as fitted

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

is 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

is 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

If so, state type Length of Bearing in Stern Bush next to and supporting propeller

Pitch No. of Blades Material whether Moveable Total Developed Surface sq. feet

worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work

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ected and size driven Pumps connected to the Main Bilge Line No. and size How driven

No. and size Lubricating Oil Pumps, including Spare Pump, No. and size

endent means arranged for circulating water through the Oil Cooler Suctions, connected both to Main Bilge Pumps and Auxiliary

In Engine and Boiler Room In Holds, &c.

Circulating Pump Direct Bilge Suctions, No. and size Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges,

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes

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

connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks

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

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

pass through the bunkers How are they protected

pass through the deep tanks Have they been tested as per Rule

, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

ement 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

to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

TERS, &c.—(Letter for record Total Heating Surface of Boilers

rs are fitted with Forced Draft Which Boilers are fitted with Superheaters

Working Pressure

PORT ON MAIN BOILERS NOW FORWARDED? If so, is a report now forwarded?

Donkey Boiler Fitted? If so, is a report now forwarded?

Any boiler be used for other than domestic purposes

Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers

(If not state date of approval)

General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

AS BELOW.

re gear required by the Rules been supplied

ncipal additional spare gear supplied

1 PAIR CONNECTING ROD BRASSES, BOLTS, NUTS & SPLIT PINS.

1 PAIR CROSSHEAD BRASSES, " " " " " "

1 SET OF PISTON RINGS.

1 SET METALLIC PACKING FOR ALL RODS.

1 PAIR FLYWHEEL END MAIN BEARING BRASSES, BOLTS, NUTS & SPLIT PINS.

the foregoing is a correct description.

FOR W.H. ALLEN, SONS & CO. LTD Manufacturer.



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Lloyd's Register

Foundation

011099 011099-0152

1953
Feb. 13-16, April 10 July 17 Aug. 21-24 Sept. 18, 24, 29.

During progress of work in shops - - -

Dates of Survey while building

During erection on board vessel - - -

Total No. of visits 9. (in shops)

Dates of Examination of principal parts—Cylinders 17/7/53. 21/8/53. Slides ✓ Covers 17/7/53 + 24/8/53.

Pistons 15/8/53 + 24/8/53. Piston Rods 24/8/53 + 18/8/53. Connecting rods 18/9/53. 29/9/53.

Crank shaft 21/8/53. 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 ✓

Thickenss of adjusting washers (1+2) LLOYDS J.D. 4629 P.F.C. 21/8/53.

Crank shaft material Cast Steel Identification Mark (2) LLOYDS 4890 J.D. 849

CONNECT RODS. LLOYDS 4648 J.D. Identification Marks 29/9/53 JLS 1854.

Intermediate shafts, material 21/8/53 P.F.C. 24/8/53 Identification Marks LLOYDS 62920.

Piston Rods. LLOYDS 52920. Identification Marks P.F.C. 24/8/53

Screw shaft, material P.F.C. 24/8/53 Identification Marks LLOYDS 7854

CYLINDERS. LLOYDS 7854 Identification Marks P.F.C. 24/8/53

Is an installation fitted for burning oil fuel 375 LBS 10/4/53 JLS 27/8/53.

Steam Pipes, material Test pressure Date of Test

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. ✓ If so, state name of vessel ✓

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

The above engines have been built under Special Survey approved plans & from materials made at works approved by the Committee; the materials & workmanship are considered satisfactory. Shop trials were witnessed under full sea trial conditions - governors tried & found to Rule Requirements.

Certificate to be sent to (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee ... £ 10 : 0 : 0

Special ... £ : : 14/10/53

Donkey Boiler Fee ... £ : : When received, 19

Travelling Expenses (if any) £ 2/10 : : 19

Date FRIDAY 15 OCT 1954

Committee's Minute See Rpt. 46

J. L. Smith.
Engineer Surveyor to Lloyd's Register of Shipping