

REPORT ON OIL ENGINE MACHINERY.

No. 53853.

Received at London Office 28 SEP 1933

t. 4b.

of writing Report

When handed in at Local Office

22.9.

Port of

Glasgow.

in Survey held at

Book

67

Single

Screw vessel

Date, First Survey

3/3/33.

Last Survey

21st Sept 1933

Number of Visits

55

"PORT CHALMERS"

Tons

Gross 8526
Net 5204

at Newcastle-on-Tyne

By whom built

Siron Hunter, Wigham R. Yard No. 1432

When built

1933

ines made at

Glasgow.

By whom made

Mess Barclay Curle & Co. Ltd

Engine No. 105

When made

1933

key Boilers made at

By whom made

Boiler No.

When made

ke Horse Power

3750

Owners

Commonwealth & Dominion Line

Port belonging to

London.

Horse Power as per Rule

1570

Is Refrigerating Machinery fitted for cargo purposes

Yes.

Is Electric Light fitted

Yes.

de for which vessel is intended

ENGINES, &c.—Type of Engines Barclay Curle - Duxford 2 or 4 stroke cycle 2. Single or double acting Single

imum pressure in cylinders 568 lbs. Diameter of cylinders 64.07 in. Length of stroke 24.80 in. No. of cylinders 4 No. of cranks 4.5 throw

of bearings, adjacent to the Crank, measured from inner edge to inner edge 166.4 in. Is there a bearing between each crank Yes

utions per minute 96 Flywheel dia. 8' 0" Weight 3.8 tons Means of ignition Compression Kind of fuel used Diesel

ck Shaft, dia. of journals as per Rule 17.83 as fitted 18.1 Crank pin dia. 19.7 Crank Webs Mid. length breadth 27.6 Mid. length thickness 11.8 Thickness parallel to axis 11.8 Thickness around eye-hole 8.85

heel Shaft, diameter as per Rule 17.83 as fitted 18.1 Intermediate Shafts, diameter as per Rule 14.09 as fitted 14.09 Thrust Shaft, diameter at collars as per Rule 17.84 as fitted 18.1

Shaft, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 15.51 as fitted 15.51 Is the tube screw shaft fitted with a continuous liner

ze Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as per rule as fitted Is the after end of the liner made watertight in the

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

e 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

o 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

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

eller, dia. Pitch No. of blades Material whether Movable Total Developed Surface sq. feet

od of reversing Engines Is a governor or other arrangement fitted to prevent racing of the engine when declutched Means of lubrication

Thickness of cylinder liners Are the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled or lagged with

onducting material If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

ing Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

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

ps connected to the Main Bilge Line No. and Size How driven

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

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

ps, No. and size:—In Machinery Spaces In Pump Room

olds, &c. Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size

all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions in the Machinery Spaces

rom easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks

they fixed sufficiently high on the ship's side to be seen without lifting the platform plates Are the Overboard Discharges above or below the deepwater line

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

t pipes pass through the bunkers How are they protected

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

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

e 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

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

wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

n Air Compressors, No. No. of stages Diameters Stroke Driven by

iliary Air Compressors, No. No. of stages Diameters Stroke Driven by

ll Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by

venting Air Pumps, No. Diameter Stroke Driven by

iliary Engines crank shafts, diameter as per Rule as fitted

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

the internal surfaces of the receivers be examined and cleaned Is a drain fitted at the lowest part of each receiver

h Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules Actual

rting Air Receivers, No. Total cubic capacity Internal diameter thickness Working pressure by Rules Actual

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules Actual

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

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

PLANS. Are approved plans forwarded herewith for Shafting (If not, state date of approval)

7/2/33

Receivers

Separate Tanks

Donkey Boilers

General Pumping Arrangements

Oil Fuel Burning Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

2201

201

yes as per attached list

The foregoing is a correct description,

FOR CAROLAY, CURLE & CO., LTD.

J. H. Curley

Director

Manufacturer.

Dates of Survey while building

During progress of work in shops-- 1933 Mar 3. 9. 14. 15. 24. Apr 6. 11. 12. 14. 19. 26. May 3. 9. 10. 12. 15. 18. June 2. 6. 5. 7. 8. 9. 14. 16. 19. 21.

During erection on board vessel-- 28. 29. 30. July 3. 6. 10. 11. 26. Aug 1. 3. 8. 11. 17. 23. 25. 28. 29. 30. Sept. 1. 4. 7. 11. 18. 19. 20. 21.

Total No. of visits 55

Dates of Examination of principal parts—Cylinders 16-6-33. Covers ✓ Pistons 17-8-33. Rods 18-5-33. Connecting rods 18-5-33.

Crank shaft 14/6/33, 24/5/33 Flywheel shaft 14-6-33 Thrust shaft 14-6-33 Intermediate shafts ✓ Tube shaft ✓

Screw shaft ✓ Propeller ✓ Stern tube ✓ Engine seatings ✓ Engines holding down bolts ✓

Completion of fitting sea connections ✓ Completion of pumping arrangements ✓ Engines tried under working conditions ✓

Crank shaft, Material steel Identification Mark Lloyd's Test No. 4481 14/6/33 24/5/33 Flywheel shaft, Material steel Identification Mark Lloyd's Test No. 4470 14/6/33 24/5/33

Thrust shaft, Material steel Identification Mark Lloyd's Test No. 4470 14/6/33 24/5/33 Intermediate shafts, Material ✓ Identification Marks ✓

Tube shaft, Material ✓ Identification Mark ✓ Screw shaft, Material ✓ Identification Mark ✓

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

Have the requirements of the Rules for oil fuel pipes and tank fittings 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.)

These engines have been built under survey in accordance with the Rules of this Society. The materials and workmanship are good. They are eligible in my opinion to be fitted in a classed vessel, and have been forwarded to Newcastle-on-Tyne for installation.

This machinery has been satisfactorily installed in the vessel, Examined under working conditions and found satisfactory. For full particulars please see Newcastle Report herewith.

H. B. Forster,
Newcastle-on-Tyne,
27 Decr. 1933.

The amount of Entry Fee .. £ 6 : 0 : 0

4/5 Special ... £ 111 : 8 : 0

Donkey Boiler Fee ... £ :

Travelling Expenses (if any) £ :

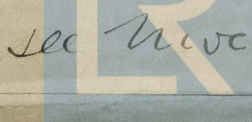
Committee's Minute GLASGOW 27 SEP 1933

Assigned Deferred.

G. E. Murdoch,
Engineer Surveyor to Lloyd's Register of Shipping

FRI. 5 JAN 1934

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