

7 AUG 1935

## REPORT ON OIL ENGINE MACHINERY.

No. 101.660

2 JUL 1935

Received at London Office

-2 JUL 1935

Port of

London

Survey held at

Newbury

Date, First Survey

29 May 1934

Last Survey

21 June 1935

Number of Visits

15

on the <sup>Single</sup> ~~Twin~~ <sup>Triple</sup> ~~Quadruple~~ Screw vessel

"ARDUITY"

Tons { Gross 303.41.  
Net 142.93

Greenock

By whom built Geo. Brown

Yard No. 192 When built 1935

made at Newbury

By whom made Newbury Diesel Co. Ltd.

Engine No. 657 When made 1935

Boilers made at

By whom made

Boiler No. — When made —

Horse Power 300

Owners H.T. Everard &amp; Son Ltd.

Port belonging to London.

Horse Power as per Rule 84

Is Refrigerating Machinery fitted for cargo purposes

No. Is Electric Light fitted Yes

for which vessel is intended.

ENGINES, &amp;c. Type of Engines Solid injection Boosted 2 or 4 stroke cycle 2. Single or double acting Single

n pressure in cylinders 650 lb. Diameter of cylinders 320 mm Length of stroke 400 mm No. of cylinders 3 No. of cranks 3

dicated Pressure 85 lb. Is there a bearing between each crank Yes

bearings, adjacent to the Crank, measured from inner edge to inner edge 448 mm 428

ms per minute 300 Flywheel dia. 1000 mm Weight 35 cwt Means of ignition Compression Kind of fuel used Heavy oil

Shaft, dia. of journals as per Rule 183.4 mm as fitted 190 mm Crank pin dia. 190 mm Crank Webs Mid. length breadth 252 mm Mid. length thickness 106 mm Thickness parallel to axis

el Shaft, diameter as per Rule as fitted Blank shaft Intermediate Shafts, diameter as per Rule 4.2" as fitted 5 1/4" Thrust Shaft, diameter at collars as per Rule 4.42" as fitted 1307 mm

shaft, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 4.88" as fitted 5 1/4" Is the tube shaft fitted with a continuous liner No liner

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

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

er 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

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 Newark Length of Bearing in Stern Bush next to and supporting propeller 26 1/4"

er, dia. 5'-7" Pitch 3'-2" No. of blades 3 Material Bronze whether Moveable Solid Total Developed Surface 10 1/2 sq. feet

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

Thickness of cylinder liners 32.5 mm Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with

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

Water Pumps, No. 1-125 dia x 120 mm Is the sea suction provided with an efficient strainer which can be cleared within the vessel

umps worked from the Main Engines, No. 1 SA Diameter 125 mm Stroke 120 mm Can one be overhauled while the other is at work

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

olling water led to the bilges If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

Pumps, No. and size 1, 2A, 125 x 120 Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 2 Rotary 10 gal. per min

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

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

ndent Power Pump Direct Suctions to the Engine Room Bilges, No. and size

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

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

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

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

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

es pass through the bunkers How are they protected

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

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

rangement 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

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

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

r Compressors, No. 1 SA No. of stages 1 Diameters 1107 mm Stroke 1507 Driven by M. H. C. 300 RPM

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

Auxiliary Air Compressors, No. 1 No. of stages 2 Diameters 1107 mm 457 Stroke 807 Driven by Aux. H. C. 1000 RPM

ing Air Pumps, No. 3 Rotary Boost Diameter Stroke Driven by Main Engine

ry Engines crank shafts, diameter as per Rule as fitted See Separate Report attached hereto.

