

REPORT ON OIL ENGINE MACHINERY

No. 101,991

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26 SEP 1935 Port of London

in Survey held at Newbury

Date, First Survey 26 January 1935 Last Survey 16th September 1935

on the Single Screw vessel M.V. ACCRUITY

Tons ^{Gross}
 _{Net}

built at Greenock By whom built George Brown & Co. Ld. Yard No. 190 When built 1935

engines made at Newbury By whom made Newbury Diesel Co. Ld. Engine No. 667 When made 1935

Boilers made at _____ By whom made _____ Boiler No. _____ When made _____

like Horse Power 500 Owners H. T. Zuerard & Son. Ld. Port belonging to _____

nom. Horse Power as per Rule 140 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Use for which vessel is intended _____

ENGINES, &c. Type of Engines Airless Injection - Boosted (SIRRON) 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 650 lb. sq. in. Diameter of cylinders 320 mm Length of stroke 400 mm No. of cylinders 5 No. of cranks 5

No. of bearings, adjacent to the Crank, measured from inner edge to inner edge 448 mm Is there a bearing between each crank Yes

Revolutions per minute 300 Flywheel dia. 900 mm Weight 25 cwt Means of ignition Compression Kind of fuel used Heavy oil

Crank Shaft, dia. of journals as per Rule 185.5 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 shrunk Thickness around eye-hole _____

Wheel Shaft, diameter as per Rule _____ as fitted Crank shaft Intermediate Shaft, diameter as per Rule 4-86" as fitted 5 5/8" Clutch Thrust Shaft, diameter at collars as per Rule 129.6 mm as fitted 130 mm

Propeller Shaft, diameter as per Rule _____ as fitted _____ Screw Shaft, diameter as per Rule 5-62" as fitted 5 5/8" Is the tube screw shaft fitted with a continuous liner no liner

Cylinder 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 cylinder 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

When 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 to be

Length of Bearing in Stern Bush next to and supporting propeller 29" If so, state type Newark

Propeller, dia. 6'-4" Pitch 3'-7 1/2" No. of blades 3 Material Brass whether Moveable Solid Total Developed Surface 12.5 sq. feet

Method of reversing Engines Engine reversible by an operated gear Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication oil

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 conducting material

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

Working Water Pumps, No. 1 - 140 mm dia x 120 mm stroke SA Is the sea suction provided with an efficient strainer which can be cleared within the vessel _____

Other Pumps worked from the Main Engines, No. 2 SA Diameter 140 mm Stroke 120 mm Can one be overhauled while the other is at work Yes

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

Ballast Pumps, No. and size 1. 2 1/2" dia. 1257 x 1207 mm 150 RPM Lubricating Oil Pumps, including Spare Pump, No. and size 2. Rotary gear type 12 gal per min

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

Other pumps, No. and size:—In Machinery Spaces _____ In Pump Room _____

Holds, &c. _____

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

Are all the Bilge Suction pipes in Holds and Tunnels well fitted with strum-boxes _____ Are the Bilge Suctions in the Machinery Spaces _____

Are they 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 platform 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 _____

How are they protected _____

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 _____

Are the means provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork _____

Auxiliary Air Compressors, No. one No. of stages one Diameters 110 mm Stroke 150 mm Driven by Motor at 300 RPM

Auxiliary Air Compressors, No. one No. of stages two Diameters 110 mm - 45 mm Stroke 80 mm Driven by Aux. Eng at 1000 RPM

Reversing Air Pumps, No. 5 Rotary Boosters Diameter _____ Stroke _____ Driven by Motor

Auxiliary 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 _____

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

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

Are they seamless, lap welded or riveted longitudinal joint Material _____ Range of tensile strength _____ Working pressure by Rules _____ Actual _____

Working Air Receivers, No. 3 Total cubic capacity 18 cu ft. each = 39 cu ft. Internal diameter 19" thickness 1/2"

Are they seamless, lap welded or riveted longitudinal joint D.R. Pap. Material Steel Range of tensile strength 26/30 Working pressure by Rules 446 lb. sq. in. Actual 400 lb. sq. in.



