

Rpt. 4b.

REPORT ON OIL ENGINE MACHINERY.

No. 32174

AUG 20 1937

Received at London Office

Date of writing Report 19 When handed in at Local Office 19 AUG. 1937 Port of Sunderland.

No. in Survey held at Sunderland Date, First Survey July 24 Last Survey Aug 18 1937
Reg. Book. Number of Visits 24

on the Single Twin Triple Quadruple Screw vessel "RODSLEY" TROMA Tons ? Gross ? Net ?

Built at Sunderland By whom built Wm. Beard & Sons Ltd. Yard No. 638 When built 1934

Engines made at Newcastle By whom made Swan Hunter & Wigham Richardson Engine No. 1550 When made 1934

Donkey Boilers made at Stockton By whom made Stockton Chem. Eng. & Riley Bros Boiler No. 6258 When made 1934

Brake Horse Power 1800 Owners Thomson Shipping Co Ltd. Port belonging to Newcastle

Nom. Horse Power as per Rule 388 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted Yes.

Trade for which vessel is intended Please see Nue Rpt. 95287

2 or 4 stroke cycle Single or double acting Single

Maximum pressure in cylinders _____ Diameter of cylinders _____ Length of stroke _____ No. of cylinders _____ No. of cranks _____

Lean Indicated Pressure _____ Mean Indicated Pressure _____ Is there a bearing between each crank _____

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge _____

Revolutions per minute 115 Flywheel dia. _____ Weight _____ Means of ignition _____ Kind of fuel used _____

Crank Shaft, dia. of journals as per Rule _____ as fitted _____ Crank pin dia. _____ Crank Webs Mid. length breadth _____ Mid. length thickness _____ Thickness parallel to axis _____ Thickness around eye-hole _____

Flywheel Shaft, diameter as per Rule _____ as fitted _____ Intermediate Shafts, diameter as per Rule app. 286 as fitted 305 Thrust Shaft, diameter at collars as per Rule _____ as fitted _____

Stern Tube Shaft, diameter as per Rule _____ as fitted _____ Screw Shaft, diameter as per Rule app. 300 as fitted 314 Is the tube shaft fitted with a continuous liner Yes

Bronze Liners, thickness in way of bushes as per Rule 16.4 as fitted 18.0 Thickness between bushes as per rule 12.5 as fitted 14.5 Is the after end of the liner made watertight in the propeller boss Yes.

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 shaft no.

If so, state type _____ Length of Bearing in Stern Bush next to and supporting propeller 5'-0"

Propeller, dia. 14'-0" Pitch 10'-6" No. of blades 4 Material Bronze whether Moveable no. Total Developed Surface 80 sq. feet

Method of reversing Engines Hand lever. Is a governor or other arrangement fitted to prevent racing of the engine when disengaged Yes. Means of lubrication Hand forced

Thickness of cylinder liners _____ Are the cylinders fitted with safety valves Yes. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Yes.

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

Cooling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes.

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

Pumps connected to the Main Bilge Line No. and Size 2 6" x 5 1/2" x 15" Simplex How driven Steam.

Is the cooling water led to the bilges no. If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping arrangements _____

Ballast Pumps, No. and size 1 @ 12" x 10 1/2" x 24" Simplex Power Driven Lubricating Oil Pumps, including Spare Pump No. and size one main Inf. driven 6" x 5 1/2" x 15" Simplex

Are two independent means arranged for circulating water through the Oil Cooler Yes. Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps, No. and size:—In Machinery Spaces 4 @ 3" in E.R. 1 @ 3" in Tunnel Well. In Pump Room _____

In Holds, &c. N°1. 3 1/2" φ 18. N°2. 3 1/2" φ 18. N°3. 3" φ 15. N°4. 3 1/2" φ 18. Dup Tank. 3 1/2" φ 18. Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 8" (Ballast pump) 1 @ 5"

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

Are they fitted with Valves or Cocks Both. Are they fixed sufficiently high on the ship's side to be seen without lifting the platform plates Yes. Are the Overboard Discharges above or below the deep water line Yes.

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes. Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes.

What pipes pass through the bunkers None. How are they protected _____

What pipes pass through the deep tanks Forward bilge suction Have they been tested as per Rule Yes.

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

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 Yes. Is the Shaft Tunnel watertight Yes. Is it fitted with a watertight door Yes. worked from E.R. top plating.

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

Main Air Compressors, No. Two No. of stages 3 Diameters 10 1/2" 8 1/2" 2 1/2" Stroke 6" Driven by Steam engine 11 1/2" x 6" Stroke

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

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

Scavenging Air Pumps, No. _____ Diameter _____ Stroke _____ Driven by _____

Auxiliary Engines crank shafts, diameter as per Rule _____ as fitted _____ No. _____ Position _____



