

REPORT ON OIL ENGINE MACHINERY.

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MANCHESTER

Report 30th Nov. 1955 When handed in at Local Office 13th Dec. 1955 Port of

Survey held at Ashton-under-Lyne. Date, First Survey 29th Sept. 1955 Last Survey 21st Nov. 1955
Number of Visits 7

on the Single Irrawaddy Flotilla Quarter Wheeler - Classed Vessel. Tons (Gross..... Net.....)

Builder Scottston, Glasgow. By whom built Messrs. Yarrow & Co. Job No. 635 Order 2604 Yard No. 4535 When built 1955

Made at Ashton-under-Lyne By whom made The National Gas & O.E. Co. Ltd. Engine No. 80641 When made 1955

Boilers made at By whom made Boiler No. When made

Use Power 440 Owners The Burma Inland Water Transport Org. Port belonging to

As per Rule 88 Is Refrigerating Machinery fitted for cargo purposes..... Is Electric Light fitted.....

which vessel is intended.....

Types of Engines National R4AM8 2 or 4 stroke cycle 4 Single or double acting Single

Pressure in cylinders 850 psi Diameter of cylinders 9" Length of stroke 12" No. of cylinders 8 No. of cranks 3

Rated Pressure 115 psi Ahead Firing Order in Cylinders 1.5.2.6.8.4.7.3 Span of bearings, adjacent to the crank, measured edge to inner edge 10 1/2" Is there a bearing between each crank Yes Revolutions per minute 600/35.94 possible

Weight 2,840 Moment of inertia of flywheel (lbs. in² or Kg. cm.²) 1433 Means of ignition Comp. Kind of fuel used Diesel

dia. of journals 6.622 Crank pin dia. 6.372" Crank webs shrunk Mid. length breadth 8 1/2" Thickness parallel to axis..... Mid. length thickness 2 3/4" Thickness around eyehole.....

Shaft, diameter as per Rule..... Intermediate Shafts, diameter as fitted..... Thrust Shaft, diameter at collars as per Rule.....

Screw Shaft, diameter as fitted..... Is the (tube/screw) shaft fitted with a continuous liner {.....}

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

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

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 shaft.....

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

dia. Pitch..... No. of blades..... Material..... whether moveable..... Total developed surface..... sq. feet

inertia of propeller (lbs. in² or Kg. cm.²)..... Kind of damper, if fitted Holset" Viscous Type.

Reversing Engines R/R Gear-box Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of forcing cylinder liners.....

Thickness of cylinder liners 19/32" Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled.....

Exhaust Manifold Water Cooled. If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned.....

engine..... Cooling Water Pumps, No. 1 FW. Pump 5280 GPH capacity. 1 SW. Pump 8,000 GPH. capacity. Is the sea suction provided with an efficient strainer which can be cleared within the vessel.....

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

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.....

Power Driven Lubricating Oil Pumps, including spare pump, No. and size 2 - 1,000 GPH. each.

Independent means arranged for circulating water through the Oil Cooler..... Suctions, connected to both main bilge pumps and auxiliary pumps, No. and size:—In machinery spaces..... In pump room.....

Power Pump Direct Suctions to the engine room bilges, No. and size.....

bilge suction pipes in holds and tunnel well fitted with strum-boxes..... Are the bilge suction in the machinery spaces 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..... Are they fixed 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 the blow off cocks fitted with a spigot and brass covering plate.....

How are they protected.....

Have they been tested as per Rule.....

Are cocks, valves and pumps in connection with the machinery and all boiler mountings accessible at all times.....

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.....

Is the shaft tunnel watertight..... Is it fitted with a watertight door..... worked from.....

Means provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork.....

Compressors, No. One CS2 Reavel No. of stages Two diameters LP. 3 1/2" dia. HP. 1 1/2" dia. stroke 3" driven by vee belt from bobbin coupling

Air Compressors, No. No. of stages..... diameters..... stroke..... driven by.....

Auxiliary Air Compressors, No. No. of stages..... diameters..... stroke..... driven by.....

Provision is made for first charging the air receivers.....

Air Pumps, No. diameter..... stroke..... driven by.....

Engines crank shafts, diameter as per Rule..... No. Position.....

auxiliary engines been constructed under special survey..... Is a report sent herewith.....

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