

REPORT ON OIL ENGINE MACHINERY.

No. 1577

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Date of writing Report 28th May, 1937 When handed in at Local Office 31st May, 1937 Port of Mahrö
No. in Survey held at Mahrö Date, First Survey 2nd Nov. 1936 Last Survey 29th May, 1937
Reg. Book No. 9050 on the Single Twin Triple Quadruple Screw vessel "REALF" Number of Visits 142
Built at Mahrö By whom built Hockmire Mels. V. Mels. Yard No. 194 When built 1937
Engines made at Mahrö By whom made Hockmire Mels. V. Mels. Engine No. 151 When made 1937
Donkey Boilers made at Mahrö By whom made Hockmire Mels. V. Mels. Boiler No. 942/3 When made 1937
Gross Horse Power 3450 Owners 75 Augsburg Port belonging to Moro
Nom. Horse Power as per Rule 1167 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
for which vessel is intended ✓

Engines, &c. Type of Engines MAN D62U 607110 2 or 4 stroke cycle 2 Single or double acting Double
Pressure in cylinders 50 kg. cm² Diameter of cylinders 600 mm. Length of stroke 1100 mm. No. of cylinders 6 No. of cranks 6
Indicated Pressure 5.4 kg. cm² Bearings, adjacent to the Crank, measured from inner edge to inner edge 860 mm. Is there a bearing between each crank Yes
Revolutions per minute 95-100 Flywheel dia. 2093 mm. Weight 6320 kgs. Means of ignition Compression Kind of fuel used Heavy oil
Shaft, dia. of journals as per Rule 397 mm. Crank pin dia. 420 mm. Crank Webs Mid. length breadth 300 mm. Thickness parallel to axis 265 mm.
as fitted 420 mm. Mid. length thickness 265 mm. Thickness around eyehole 200 mm.
Main Shaft, diameter as per Rule 397-362 mm. Intermediate Shafts, diameter as per Rule 345 mm. Thrust Shaft, diameter at collars as per Rule 362 mm.
as fitted 420-364 mm. as fitted 345 mm. as fitted 364 mm.
Main Shaft, diameter as per Rule 381 mm. Is the tube shaft fitted with a continuous liner Yes
as fitted 390 mm. as fitted 390 mm.

Liners, thickness in way of bushes as per Rule 19.2 mm. Thickness between bushes as per rule 14.4 mm. Is the after end of the liner made watertight in the
as fitted 20 mm. as fitted 15 mm. boss Yes 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-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 ✓ Length of Bearing in Stern Bush next to and supporting propeller 1750 mm.

Propeller, dia. 5100 mm. Pitch 4300 mm. No. of blades 4 Material Brass whether Moveable No Total Developed Surface 94.5 sq. feet
of reversing Engines MAN method Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication
Thickness of cylinder liners 41.5 mm. Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with
cladding material Lagged If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine led to the funnel.

Water Pumps, No. 2 each of 190 T/H. Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
Pumps worked from the Main Engines, No. ✓ Diameter ✓ Stroke ✓ Can one be overhauled while the other is at work ✓
connected to the Main Bilge Line { No. and Size 3. One 7 1/2" x 8" x 10 Spl. of 100 T/H. 1 of 40 T/H. 1 of 30 T/H. 1-6" x 8" x 6" of 50 T/H. 1-6" x 6" x 6" of 30 T/H.
How driven Steam driven. elec. driven. Steam driven. Steam driven.
clinging 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
plants ✓

Pumps, No. and size 1-7 1/2" x 8" x 10 Spl. of 100 T/H. Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 2. Each of 100 m³/H.
Independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
No. and size:—In Machinery Spaces 3-4" In the after cofferdam 1-4" MAIN Inv Pump Room 3-3 1/2"
etc. 2-3 1/2" in dry cargo hold. In fwd. cofferdam 1-3 1/2" In fwd. pump room 1-3 1/2"

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1-5" & 1-4"

Are the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Yes 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 Yes Special covers for access ✓

Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks No
Are they 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 Above

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
Do they pass through the bunkers ✓ How are they protected ✓

Do they pass through the deep tanks After cofferdam connection pipes Have they been tested as per Rule Yes
Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

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 Mech. apt Is it fitted with a watertight door ✓ worked from ✓

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

Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
Auxiliary Air Compressors, No. 2 No. of stages 2 Diameters 300 & 110 mm. Stroke 220 mm. Driven by aux. engines.

All Auxiliary Air Compressors, No. 1 No. of stages "Reanal" TCS 2 Capacity 8 m³ atm. air/H. Stroke ✓ Driven by small generator
Serving Air Pumps, No. 2 (Tandem) Diameter 1380 mm. Stroke 850 mm. Driven by Main engine.

Auxiliary Engines crank shafts, diameter as per Rule 140 mm. as fitted 155 mm. MARKS: LLOYD'S 9602/3 PK. 2-10-36 No. 2 Position In motor space.

