

YACHT.
REPORT ON OIL ENGINE MACHINERY.

No. 59

30 JAN 1926

Received at London Office

31st Jan

1925

31st Jan

1925

Port of

Wintertur

Date, First Survey

25th Jan, 24

Last Survey

30th Jan, 1925.

Number of Visits

Single
on the Twin } Screw vessels
Triple }

Gross 223
Net 104

By whom built

Yard No.

When built

By whom made

Messrs. Sulzer, Bros.

Engine No.

When made

By whom made

Boiler No.

When made

Owners

Port belonging to

250

Horse Power as per Rule

11.5.

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Type of Engines Airless Inj. Internal Combustion Engine 2 or 4 stroke cycle 2 Single or double acting single

num pressure in cylinders 35 lbs., No. of cylinders 4 Diameter of cylinders 310 mm No. of cranks 4 Length of stroke 420 mm

of bearings, adjacent to the Crank, measured from inner edge to inner edge 360 mm Is there a bearing between each crank Yes

ations per minute 275 To 300 Flywheel dia. 1000 mm Weight 1000 kg. Means of ignition Compression Kind of fuel used heavy fuel oil

k Shaft, dia. of journals as per Rule 160.5 mm Crank pin dia. 175 mm Crank Webs Mid. length breadth 240 mm Mid. length thickness 98 mm Thickness parallel to axis solid

heel Shafts, diameter as per Rule 160.5 mm Intermediate Shafts, diameter as per Rule 105.13 mm Thrust Shaft, diameter at collars as per Rule 110.4 mm

as fitted 175 mm as fitted as fitted

Shafts, diameter as per Rule Screw Shaft, diameter as per Rule Is the tube screw shaft fitted with a continuous liner

as fitted as fitted as fitted

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

as fitted as fitted as fitted

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

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

the tube shaft Length of Bearing in Stern Bush next to and supporting propeller

eller, dia. Pitch No. of blades Material whether Moveable Total Developed Surface sq. feet

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

ed Thickness of cylinder liners 25 mm Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with

ducting 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

ng Water Pumps, No. 1 S.A. 125 mm dia x 50 mm stroke Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Pumps fitted to the Main Engines, No. 1 S.A. Diameter 125 mm Stroke 50 mm Can one be overhauled while the other is at work

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

st Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size driven from crank shaft.

co independent means arranged for circulating water through the Oil Cooler

s, No. and size:—In Engine and Boiler Room

lds, &c.

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

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

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

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

ey 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

ey 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

pipes pass through the bunkers

pipes pass through the deep tanks

ll Pipes, 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, or from one

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

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

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

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

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

enging Air Pumps, No. 1 double acting Diameter 500 mm Stroke 420 mm Driven by Crank shaft

liary 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

the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

ere a drain arrangement fitted at the lowest part of each receiver

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

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ting Air Receivers, No. Total cubic capacity Internal diameter thickness

less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

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IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

HYDRAULIC TESTS:—

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS	27.8.24.	35 lbs.	75 lbs.	R	Tests satisfactory
" " COVERS	21.8.24.	" "	" "	"	" "
" " JACKETS	27.8.24. 21.8.24.	1 "	6 "	"	" "
" PISTON WATER PASSAGES	4.9.24.	2 "	" "	"	" "
MAIN COMPRESSORS—1st STAGE					
" 2nd					
" 3rd					
AIR RECEIVERS—STARTING					
" INJECTION					
AIR PIPES	16.1.25	30 lbs.	60 lbs.	R	Tests satisfactory
FUEL PIPES	"	100 "	200 "	"	" "
FUEL PUMPS & VALVES	7.8.24. 11.8.24.	" "	" "	"	" "
SILENCER					
" WATER JACKET					
SEPARATE FUEL TANKS					

PLANS. Are approved plans forwarded herewith for Shafting 9.5.24. Receivers Separate Tanks
(If not, state date of approval)

Donkey Boilers General Pumping Arrangements Oil Fuel Burning Arrangements

SPARE GEAR

The foregoing is a correct description.

Manufacturer.

Dates of Survey while building
During progress of work in shops - 25.1.24, 7.3.24, 9.4.24, 12.5.24, 19.5.24, 5.6.24, 17.7.24, 7.8.24, 8.8.24, 11.8.24, 13.8.24, 21.8.24, 27.8.24, 2.9.24, 4.9.24
During erection on board vessel - 22.10.24, 15.12.24, 16.1.25, 28.1.25, 30.1.25.
Total No. of visits

Dates of Examination of principal parts—Cylinders 30.1.25. Covers 30.1.25. Pistons 30.1.25. Rods Connecting rods 30.1.25.

Crank shaft 30.1.25 Flywheel shaft 30.1.25. Thrust shaft 30.1.25. Intermediate shafts Tube shaft

Screw shaft Propeller Stern tube Engine seatings Engines holding down bolts

Completion of fitting sea connections Completion of pumping arrangements Engines tried under working conditions

FLYWHEEL Ann. S.M. Eng. Stl. Identification Mark Eng. No. 14052, 35582, Lloyd's Flywheel shaft, Material 19.136, R. 5-6-24. Identification Mark

Thrust shaft, Material Ann. S.M. Eng. Stl. Identification Mark Eng. No. 14052, 6448, Lloyd's Intermediate shafts, Material Identification Marks

Tube shaft, Material Identification Mark Screw shaft, Material Identification Mark

Is the flash point of the oil to be used over 150° F. Yes.

Is this machinery duplicate of a previous case Eng. No. 14074 If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) This machinery has been constructed under Special Survey in accordance with the requirements of the Rules, the Secretary's letters, and the approved plans. Materials and workmanship good. Full power trial of Engine in shop satisfactory.

This Engine is to be placed in stock.

The amount of Entry Fee ... £ 2 - 0 - 0 When applied for,
Special ... £ 17 - 17 - 6 31.1.25
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 2nd Feb. 1925

Committee's Minute GLASGOW 29 JUN 1926

Assigned See Gls. Rpt. No 45771

W.G. Hallis.
Engineer Surveyor to Lloyd's Register of Shipping.