

## YACHT

4b

## REPORT ON OIL ENGINE MACHINERY.

No. 96

21 MAY 1929

Writing Report

18<sup>th</sup> May 29

When handed in at Local Office

18<sup>th</sup> May 29

Port of Winterthur

Received at London Office

Survey held at

Winterthur

Date, First Survey

26<sup>th</sup> October 1928

Last Survey

14<sup>th</sup> May 1929

Number of Visits

on the <sup>Single</sup> Twin <sup>Triple</sup> Quadruple } Screw vessel

Tons } Gross  
Net

made at Gosport  
Winterthur

By whom built Messrs. Camper &amp; Nicholson Ltd.

Yard No. 363

When built 1929.

By whom made Messrs. Sulzer Bros.

Engine No. 6033

When made 1929.

Boilers made at

By whom made

Boiler No.

When made

Horse Power

1350 (2 Engs.)

Owners Mr. L. Rothschild

Port belonging to

Horse Power as per Rule

375 (✓)

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

Which vessel is intended

**FINES, &c.**—Type of Engines Sulzer Diesel Engines  $2\frac{1}{4}$ " 2 or 4 stroke cycle 2' Single or double acting Single  
 Pressure in cylinders 550 lbs. sq. in. Diameter of cylinders 340 mm. Length of stroke 540 mm. No. of cylinders 12 No. of cranks 12  
 Cranks, adjacent to the Crank, measured from inner edge to inner edge 430 mm. Is there a bearing between each crank Yes  
 Revolutions per minute 220 Flywheel dia. 1500 mm. Weight 2400 Kg. Means of ignition Compression Kind of fuel used heavy fuel oil  
 Dia. of journals as per Rule 215 mm. Crank pin dia. 220 mm. Crank Webs Mid. length breadth 290 mm. Thickness parallel to axis shrunk  
 as fitted 220 Mid. length thickness 120 Thickness around eyehole shrunk  
 Shaft, diameter as per Rule 215 Intermediate Shafts, diameter as per Rule 157 mm. Thrust Shaft, diameter at collars as per Rule 165 mm.  
 as fitted 220 as fitted 185  
 Shaft, diameter as per Rule 215 as fitted 220 Is the { tube { shaft fitted with a continuous liner {  
 as fitted 220 as fitted 220 as fitted 220  
 Bushes, thickness in way of bushes as per Rule 215 Thickness between bushes as per rule 220 Is the after end of the liner made watertight in the

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

Are the liners 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

Length of Bearing in Stern Bush next to and supporting propeller

Reversing Engines direct Is a governor or other arrangement fitted to prevent racing of the engine when disengaged Yes Means of lubrication

Thickness of cylinder liners 27 mm. Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with

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

Water Pumps, No. 1 Double acting each eng. for cyls. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Is worked from the Main Engines, No. 1 each eng. 75 mm. Stroke 200 mm. Can one be overhauled while the other is at work Yes

Connected to the Main Bilge Line { No. and Size  
How driven

Pumps, No. and size 1 Gear pump each eng. 1 Donnington pump spare.

Independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

and size:—In Machinery Spaces

Is the 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 Suctions in the Machinery Spaces

Are 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 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 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

Are discharges through the bunkers. How are they protected.

Are discharges through the deep tanks. Have they been tested as per Rule.

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

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

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

Compressors, No. 1 each eng. No. of stages 3 Diameters 385/345/175 Stroke 320 Driven by Main engine

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

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

Air Pumps, No. 1 each eng. D.A. Diameter 840 mm. Stroke 460 mm. Driven by Main engine

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 Yes

Are the surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Injection hole 125 mm. at one end

Is the arrangement fitted at the lowest part of each receiver Yes Starting:— " 150 " " " " "

Re Air Receivers, No. 2 Injection Cubic capacity of each 82 litres Internal diameter 249 mm. thickness 9 mm.

Are welded or riveted longitudinal joint Seamless Material Sm. Steel Range of tensile strength 55561.3 kg/mm<sup>2</sup> Working pressure by Rules 80.5 kg/cm<sup>2</sup> @ 55 kg/mm<sup>2</sup>

Receivers, No. 8 Total cubic capacity 4000 litres Internal diameter 535 mm. thickness 17 mm.

Are welded or riveted longitudinal joint Seamless Material Sm. Steel Range of tensile strength 58768 kg/mm<sup>2</sup> Working pressure by Rules 82.5 kg/cm<sup>2</sup> @ 58 kg/mm<sup>2</sup>

W319-0208

Register  
Foundation



## IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

PLANS. Are approved plans forwarded herewith for Shafting 19-11-28.  
(If not, state date of approval)

Receivers 15-3-27, 11-10-28. Separate Tanks.

Donkey Boilers

General Pumping Arrangements

Oil Fuel Burning Arrangements

## SPARE GEAR

The foregoing is a correct description of the

Manufacturer.

Dates of Survey while building

During progress of work in shops - -	26-10-28, 1-11-28, 9-11-28, 23-11-28, 6-12-28, 12-12-28, 19-1-29, 26-1-29, 29-1-29, 8-3-29, 9-3-29, 11-3-29
	13-3-29, 15-3-29, 18-3-29, 19-3-29, 23-3-29, 26-3-29, 28-3-29, 9-4-29, 11-4-29, 17-4-29, 25-4-29, 26-4-29
	30-4-29, 2-5-29, 11-5-29, 14-5-29.
During erection on board vessel - -	
Total No. of visits	

Dates of Examination of principal parts—Cylinders 29-4-29, 11-5-29 Covers 29-4-29, 11-5-29 Pistons 29-4-29, 11-5-29 Rods 29-4-29, 11-5-29 Connecting rods 29-4-29, 11-5-29

Crank shaft 29-4-29, 11-5-29 Flywheel shaft 29-4-29, 11-5-29 Thrust shaft 12-12-28 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

Crank shaft, Material Ann. S.M. Eng. Steel Identification Mark Lloyd's 2763 J.Q. 15-1-29 Flywheel shaft, Material see crankshaft Identification Mark see crankshaft

Thrust shaft, Material Ann. S.M. Eng. Steel Identification Mark Lloyd's N° 368 J. 12-12-28 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 Yes. If so, state name of vessel M.Y. "Narcissus"

General Remarks (State quality of workmanship, opinions as to class, &c.)

This machinery has been constructed in accordance with the requirements of the Rules, the Secretary's letter of approval. The approved plans. Materials and workmanship good. This machinery has been d to Export where the trials will be run when it is installed in the vessel.

The amount of Entry Fee ... £ 5-0-0: When applied for,  
Special ... £ 81-5-0: 19.  
Donkey Boiler Fee ... £ : : When received,  
Travelling Expenses (if any) £ : : 11 June 1929

Committee's Minute

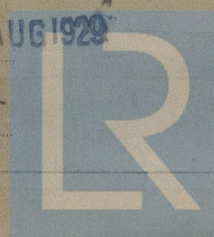
Assigned

TUE. 23 JUL 1929

WED. 7 AUG 1929

W.G. Fallis

Engineer Surveyor to Lloyd's Register of



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Foundation

Outstanding must details for

Certificate (if required) to be sent to  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)