

REPORT ON OIL ENGINE MACHINERY.

No. 22061

Date of writing Report 8th Oct. 36

When handed in at Local Office

Port of Hamburg

12 OCT 1936

No. in Survey held at Augsburg and Hamburg Date, First Survey 27th Febr. 1936 Last Survey 22 Septemb 1936

Reg. Book.

Number of Visits 25

Single
on the Twin
Triple
Quadruple
Screw vessel"Norlys"Tons { Gross 9892
Net 5901

Built at Hamburg By whom built Deutsche Werft A.G. Yard No. 187 When built 1936.
Engines made at Augsburg By whom made Maschinf. Augsburg-Nürnberg Engine No. 64110 When made 1936.
Monkey Boilers made at Hamburg By whom made Deutsche Werft A.G. Boiler No. 562/3 When made 1936.
Horse Power 4100 Owners Johan Rasmussen & Co. Port belonging to Panama City
Horse Power as per Rule 1167 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted yes
Trade for which vessel is intended Tanker Service 43 5/16"

L ENGINES, &c.—Type of Engines D6 zu 60/110 23% 2 or 4 stroke cycle 2 Single or double acting double

Maximum pressure in cylinders 45 atm Diameter of cylinders 600 mm Length of stroke 1100 mm No. of cylinders 6 No. of cranks 6

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 895 mm. Is there a bearing between each crank yes

Revolutions per minute 116 Flywheel dia. 2100 mm Weight 3400 Kgs. Means of ignition dir. inj Kind of fuel used Diesel Oil.

Crank Shaft, dia. of journals as per Rule 420 mm Crank pin dia. 420 mm Crank Webs Mid. length breadth 710 mm Thickness parallel to axis 265 mm

Flywheel Shaft, diameter as fitted 440 mm Intermediate Shafts, diameter as per Rule 341.1 mm Thrust Shaft, diameter at collars as per Rule 358.5 mm

Main Shaft, diameter as fitted 374.5 mm Is the screw shaft fitted with a continuous liner yes

Screw Shaft, diameter as fitted 388 mm Is the after end of the liner made watertight in the

Bronze Liners, thickness in way of bushes as per Rule 19 mm Thickness between bushes as per rule 14 mm

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

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

If so, state type Length of Bearing in Stern Bush next to and supporting propeller 1570 mm

Propeller, dia. 4800 mm Pitch 3400 mm No. of blades 4 Material Bronze Whether Moveable Total Developed Surface 7.028 m²

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

Thickness of cylinder liners 40 mm Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with

conducting 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

Cooling Water Pumps, No. 4 Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Are special arrangements made for dealing with cooling water if discharged into bilges

Large 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 ; Bilge pump = 75 m³/h ; Ballast pump = 250 m³/h ;

How driven Steam driven ; Steam driven ;

Ballast Pumps, No. and size 1 ; 250 m³/h Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 2 ; 1 steam dr. = 40 m³/h

Are two independent means arranged for circulating water through the Oil Cooler yes

Pumps, No. and size:—In Machinery Spaces 1 direct = 1800, 6 of 900, 3 Boiler space of 500, 2 oil gullies 500, 4 of 900 In Pump Room 1 of 650, 1 of 700, 1 of 750

Holds, etc. Chain locker 1 of 700, 1 of 750, 1 of 800, 1 of 850, 1 of 900, 1 of 950, 1 of 1000, 1 of 1050, 1 of 1100, 1 of 1150, 1 of 1200, 1 of 1250, 1 of 1300, 1 of 1350, 1 of 1400, 1 of 1450, 1 of 1500, 1 of 1550, 1 of 1600, 1 of 1650, 1 of 1700, 1 of 1750, 1 of 1800, 1 of 1850, 1 of 1900, 1 of 1950, 1 of 2000, 1 of 2050, 1 of 2100, 1 of 2150, 1 of 2200, 1 of 2250, 1 of 2300, 1 of 2350, 1 of 2400, 1 of 2450, 1 of 2500, 1 of 2550, 1 of 2600, 1 of 2650, 1 of 2700, 1 of 2750, 1 of 2800, 1 of 2850, 1 of 2900, 1 of 2950, 1 of 3000, 1 of 3050, 1 of 3100, 1 of 3150, 1 of 3200, 1 of 3250, 1 of 3300, 1 of 3350, 1 of 3400, 1 of 3450, 1 of 3500, 1 of 3550, 1 of 3600, 1 of 3650, 1 of 3700, 1 of 3750, 1 of 3800, 1 of 3850, 1 of 3900, 1 of 3950, 1 of 4000, 1 of 4050, 1 of 4100, 1 of 4150, 1 of 4200, 1 of 4250, 1 of 4300, 1 of 4350, 1 of 4400, 1 of 4450, 1 of 4500, 1 of 4550, 1 of 4600, 1 of 4650, 1 of 4700, 1 of 4750, 1 of 4800, 1 of 4850, 1 of 4900, 1 of 4950, 1 of 5000, 1 of 5050, 1 of 5100, 1 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IS A DONKEY BOILER FITTED?

yes

If so, is a report now forwarded? yes

Is the donkey boiler intended to be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting

yes

Receivers 30/11/34.

Separate Tanks 25/1/35, 24/5/35, 4/6/35

Donkey Boilers 28/9/35 + 4/4/35

General Pumping Arrangements 27/2/36

Oil Fuel Burning Arrangements 9/5/36

SPARE GEAR.

Has the spare gear required by the Rules been supplied

yes

State the principal additional spare gear supplied One upper + one lower cylinder cover; one starting air valve, complete and outlet - and one set of exp. safety valves complete; 1 piston and 1 piston rod, 3 sets of piston rings 1 upper + 1 lower exp. liner.

The foregoing is a correct description.

DEUTSCHE WERFT
AKTIEGESELLSCHAFT

Manufacturer.

10.10.36

Please see Augsburg Report. dated 7th June, 1936.

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits 25.

Feb. 27; March - 16, 17, 25; Apr. 14, May, 25, June, 8, 9, 18, 20, 27, July, 1, 17, 18, 28, Aug. 7, 10, 11, 17, Sept. 1, 4, 14, 16, 17, 22.

Dates of Examination of principal parts - Cylinders Aug. Rep. Covers Aug. R. Pistons Aug. Rep. Rods Aug. R. Connecting rods Aug. R. Propeller
Crank shaft Aug. R. Flywheel shaft Aug. R. Thrust shaft 18/7/36, 28/7/36 Intermediate shafts 18/7/36, 28/7/36 Tube shaft 17/8/36
Screw shaft 18/7/36, 28/7/36 Propeller 2/5/36, 28/7/36 Stern tube 17/7/36 Engine seatings 11/8/36 Engines holding down bolts 16/9/36
Completion of fitting sea connections 28/7/36 Completion of pumping arrangements 14/4/36 Engines tried under working conditions 16/9/36
Crank shaft, Material S.M. Steel? Identification Mark H.B. 445/446/447 Flywheel shaft, Material S.M. Steel? Identification Mark 70.5780.17/2
Thrust shaft, Material S.M. Steel? Identification Mark H.B. 336 10/3/36 Intermediate shafts, Material S.M. Steel? Identification Marks H.B. 285-21-2
Tube shaft, Material Identification Mark H.B. 336 10/3/36 Screw shaft, Material S.M. Steel? Identification Mark H.B. 11905-2-3
Identification Mark spare H.B. 11977-13-3

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

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with yes

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo

If so, have the requirements of the Rules been complied with

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with

Is this machinery duplicate of a previous case yes

If so, state name of vessel M.S. Marina - Thorsheimer.

General Remarks (State quality of workmanship, opinions as to class, &c.) This machinery has been built under special survey in compliance with the approved plans, the Secretary's letters and instructions thereto and otherwise in conformity with the Society's Requirements. The material used in the construction are of good quality and made at works recognized by the Committee and tested by the Society's Surveyors. The outfit is ample. It has given full satisfaction under working and manoeuvring condition during a 12 hours trial trip and is eligible in my opinion for notation of: + L.M.C. (with Oil Engine; Tail. Shaft (C.L.); Main aft.

The amount of Entry Fee 1/5. 24.00.

When applied for, 7/10/1936

Special ... (1/5.) 516.70.

Donkey Boiler Fee ... 500.00.

When received, 21.11.1936

2 Air Receivers 168.00.

Travelling Expenses (if any) 71.30.

FRI. 18 OCT 1936

Committee's Minute

Assigned

+ L.M.C. 9.36
C.L. Albuquerque
3.8.3 170lb.

Engine Surveyor to Lloyd's Register of Shipping.



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