

REPORT ON OIL ENGINE MACHINERY.

No. 15403

Received at London Office

OCT 11 1938

Date of writing Report 6 October 1938 When handed in at Local Office

Port of Amsterdam

No. in Survey held at Amsterdam
Reg. Book.

Date, First Survey 1937. 15 June Last Survey 1 October 1938

Number of Visits 32

72526 on the ^{Single} ~~Tern~~ ^{Triple} ~~Quadruple~~ Screw vessel

"CLAUSINA"

Tons { Gross 7987
Net 4764

Built at Rotterdam By whom built Rotterdam dry dock Yard No. 203 When built 1938

Engines made at Amsterdam By whom made N.V. Werkspoor Engine No. 721 When made 1938

Donkey Boilers made at By whom made Boiler No. When made

Brake Horse Power 3500 Owners Anglo Saxon Petroleum & Co Ltd Port belonging to The Hague

Nom. Horse Power as per Rule 502 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Trade for which vessel is intended

OIL ENGINES, &c.—Type of Engines ^{25 3/8} ~~Unless injection~~ ^{55 1/8} Super charged 2 or 4 stroke cycle 4 Single or double acting ⁴ ~~single~~

Maximum pressure in cylinders 700485

Mean Indicated Pressure 110485

Diameter of cylinders 650 mm Length of stroke 1400 No. of cylinders 8 No. of cranks 8

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 844 mm Is there a bearing between each crank Yes

Revolutions per minute 110 Flywheel dia. 2260 mm Weight 6000 kg Means of ignition Solid injectors Kind of fuel used Diesel oil

Crank Shaft, { Solid forged as per Rule approved
Semi built dia. of journals as fitted 460 mm
All built as fitted 460 mm Crank pin dia. 460 mm Crank Webs Mid. length breadth 870 mm Thickness parallel to axis shrunk
Mid. length thickness 290 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule approved as fitted 460 mm Intermediate Shafts, diameter as per Rule approved as fitted 470 mm Thrust Shaft, diameter at collars as per Rule approved as fitted 460 mm

Tube Shaft, diameter as per Rule as fitted Screw Shaft, diameter as per Rule approved as fitted 400 mm Is the { tube } shaft fitted with a continuous liner { screw }

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

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

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

shaft If so, state type Length of Bearing in Stern Bush next to and supporting propeller 1440 mm

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

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

faced Thickness of cylinder liners 55 mm Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with

non-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. 3 Salt 2 fresh water Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Bilge Pumps worked from the Main Engines, No. 2 Rotary 35 mm each Diameter Stroke Can one be overhauled while the other is at work Yes

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

Is the cooling 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 arrangements

Ballast Pumps, No. and size Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 1 rotary 40 l/hours 1 2" x 8" x 10" duplex

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

Pumps, No. and size:—In Machinery Spaces In Pump Room

In Holds, &c.

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

Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions 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

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

Are they 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

Are they 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

What pipes pass through the bunkers How are they protected

What pipes pass through the deep tanks Have they been tested as per Rule

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

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

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

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

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

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

What provision is made for first Charging the Air Receivers

Scavenging Air Pumps, No. Bottom end each cyl Diameter 650 mm Stroke 1400 mm Driven by main engine

Auxiliary Engines crank shafts, diameter as per Rule approved as fitted 110 mm No. Position

Have the Auxiliary Engines been constructed under special survey Yes Is a report sent herewith

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005029-005037-0160

AIR RECEIVERS:—Have they been made under survey

State No. of Report or Certificate 4632-4633

Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Can the internal surfaces of the receivers be examined and cleaned

Is a drain fitted at the lowest part of each receiver

Injection Air Receivers, No.

Cubic capacity of each

Internal diameter

thickness

Seamless, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules
Actual

Starting Air Receivers, No.

2

Total cubic capacity

800 cub feet

Internal diameter

1495 mm

thickness 21 mm

Seamless, lap welded or riveted longitudinal joint

Material

SMS

Range of tensile strength

30/34 ton

Working pressure

by Rules approved
Actual 350 LBS

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

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

PLANS.

Are approved plans forwarded herewith for Shafting

E 23-4-37

Receivers E 10-1-37

Separate Fuel Tanks

Donkey Boilers

General Pumping Arrangements

Pumping Arrangements in Machinery Space

Oil Fuel Burning Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

The foregoing is a correct description,

WERKSPOR N.V.

Manufacturer.

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

Dates of Examination of principal parts—Cylinders 9-10 Aug. Covers 2-22 Aug. Pistons 1-7 Sept. Rods 4 April 7 Sept. Connecting rods 4 April 7 Sept.

Crank shaft 8 Aug. 2 Sept. Flywheel shaft 8 Aug. 2 Sept. Thrust shaft 8-10-15 Aug. 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 SMS Identification Mark 5. S. 22-7-50 Flywheel shaft, Material SMS Identification Mark 5. S. 22-7-50

Thrust shaft, Material SMS Identification Mark H. P. B. 10-7-50 Intermediate shafts, Material Identification Marks

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

Identification Marks on Air Receivers 4632-4633
H. P. B. 4-4-30

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

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

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo oil tanker 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.V. CORYDA Ans up 15355

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

The Machinery has been constructed under special survey to approved plans & Secretary's Letters

Material duly tested, workmanship throughout good

The Machinery has been shipped to Rotterdam and will be fitted aboard Rotterdam dycker Ind 12-103

The amount of Entry Fee

Special

Donkey Boiler Fee

Travelling Expenses (if any)

When applied for,

When received,

Engine Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI 18 NOV 1938

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