

Rpt. 4b

REPORT ON OIL ENGINE MACHINERY.

No. 10529

Date of writing Report 1st March 27 When handed in at Local Office

19

Port of

Received at London Office

AMSTERDAM

No. in Survey held at AMSTERDAM

Date, First Survey 10 March, 1925 Last Survey 24 Febr. 19 27.

Reg. Book.

Number of Visits 76

Single
on the ~~TYPE~~ Screw ~~Vessel~~ Motor Vessel "C L A M"Tons Gross 7404
Net 4283

Built at Amsterdam

By whom built Nederlandsche Scheepsbouw

My Yard No. 182 When built 1927

Engines made at Amsterdam

By whom made Werkspoor

Engine No. - When made 1927

Donkey Boilers made at Amsterdam

By whom made Werkspoor

Boiler No. - When made 1926

Brake Horse Power 3500

Owners Anglo-Saxon Petroleum Co., Lim.

Port belonging to London

Nom. Horse Power as per Rule 1200

1204

Is Refrigerating Machinery fitted for cargo purposes No.

Is Electric Light fitted Yes

Trade for which vessel is intended Ocean Trade

Converted to 4 S.E.A. Hrs. 2.36

OIL ENGINES, &c.

Type of Engines Diesel Type

2 1/2 stroke cycle

Single or double acting

Maximum pressure in cylinders 500 / 425 lb

Diameter of cylinders 32 1/4"

Length of stroke 59"

No. of cylinders 6

No. of cranks 6

Springs, adjacent to the Crank, measured from inner edge to inner edge 43 3/4"

Is there a bearing between each crank Yes

Revolutions minute 90

Flywheel dia. 10' 0"

Weight 9 tons

Means of ignition self ignition

Kind of fuel used Diesel oil

Crank pin dia. 21 1/4"

Crank pin dia. 21 1/4"

Crank Webs

Mid. length breadth 41"

Thickness parallel to axis 13 1/8"

Flywheel Shaft, diameter as per Rule approved

Intermediate Shafts, diameter as per Rule approved

Thrust Shaft, diameter at collars as per Rule approved

Tube Shaft, diameter as per Rule approved

Screw Shaft, diameter as per Rule approved

Is the tube screw shaft fitted with a continuous liner Yes

Bronze Liners, thickness in way of bushes as per Rule approved

Thickness between bushes as per Rule 25/16"

Is the after end of the liner made watertight in the propeller boss Yes

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

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 Light put

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 United States packing

Length of Bearing in Stern Bush next to and supporting propeller 6' 2 1/4"

Propeller, dia. 14' 6"

Pitch 16' 3"

No. of blades 4

Material Bronze

whether Moveable Solid

Total Developed Surface 9.5 sq. feet

Method of reversing Engines Sea

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Means of lubrication

Thickness of cylinder liners 1/8" x 1/8"

Are the cylinders fitted with safety valves Yes

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water cooled

Cooling Water Pumps, No. 2

500 x 300 mm

Double acting

Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Bilge Pumps worked from the Main Engines, No. 2

Diameter 120 mm

Stroke 300 mm

Can one be overhauled while the other is at work Yes

Pumps connected to the Main Bilge Line

No. and Size Two 8" x 10 1/2" x 10"

How driven Steam driven

Ballast Pumps, No. and size One 8" x 10 1/2" x 10"

Lubricating Oil Pumps, including Spare Pump, No. and size 1-50 tons 100 mm electric driven

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 6" x 3 1/2" Phase 1 & 2 attached

In Holds, &c. Pump room 2.0" x 1 1/2"; Deep tank 3.0" x 2 1/2"; Fuel tank 4.0" x 2 1/2"; Cofferdam 4.0" x 2 1/2"; and 1.0" x 1 1/2"

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size Two 1 x 4 1/2" and 1 x 6 1/2"

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

Are the Bilge Suctions in the Machinery Spaces

Are all Sea Connections fitted direct on the skin of the ship Yes

Are they fitted with Valves or Cocks Both

Are they fixed 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

Are they 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 pipes pass through the bunkers No

How are they protected No

Do pipes pass through the deep tanks No

Have they been tested as per Rule No

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

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 Yes

Is the Shaft Tunnel watertight No

Is it fitted with a watertight door No

worked from No

On a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork No

Main Air Compressors, No. 2

No. of stages 3

Diameters 650/560-150

Stroke 550

Driven by main shaft

Auxiliary Air Compressors, No. 2

No. of stages 3

Diameters 300

Stroke 550

Driven by Steam and

Small Auxiliary Air Compressors, No. 2

No. of stages 2

Diameters 150

Stroke 550

Driven by 4 S.C.S.A. Diesel engine

Savenging Air Pumps, No. 2

Diameter 150

Stroke 550

Driven by

Auxiliary Engines crank shafts, diameter as per Rule approved 22 December 1924

as fitted 185 mm (2-1 cylinders and 1-3 cylinders) 4 S.C.S.A. Diesel engine

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

Are the internal surfaces of the receivers be examined Yes

What means are provided for cleaning their inner surfaces manual

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. 3

Cubic capacity of each 20 cub. ft.

Internal diameter 5 1/2"

thickness 2.25"

Seamless, lap welded or riveted longitudinal joint Seamless

Material Steel

Range of tensile strength 32/58 tons

Working pressure by Rules 9.15 lb

Starting Air Receivers, No. 4

Total cubic capacity 184 cub. ft.

Internal diameter 65"

thickness 1.5"

Seamless, lap welded or riveted longitudinal joint riveted

Material Steel

Range of tensile strength 29/55 tons

Working pressure by Rules 4.62 lb

Is there a drain arrangement fitted at the lowest part of each receiver Yes

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W1023-0017

IS A DONKEY BOILER FITTED? *Yes (two).* If so, is a report now forwarded? *Yes sent now.*
 PLANS. Are approved plans forwarded herewith for Shafting *Shafting* Receivers *li* Separate Tanks *Landed*
 (If not, state date of approval) *18/11/24* Donkey Boilers *50* General Pumping Arrangements *50* Oil Fuel Burning Arrangements *50*

SPARE GEAR *Two top end bolts and nuts, 2 bottom end bolts and nuts, 2 main bearing bolts, 2 sets of coupling bolts, 1 set of feed and bilge pumps valves, 1 set of piston springs, a quantity of assorted bolts and nuts, 1 three throw crankshaft, 2 sets crosshead brasses, 2 bottom end brasses, 1 complete set main bearing brasses, 6 inlet and exhaust valve houses with valves and springs complete. Please see further list attached.*

The foregoing is a correct description,

WERKSPLOOR

Manufacturer.

Dates of Survey while building	During progress of work in shops -	10/1, 11/1, 12/1, 13/1, 14/1, 15/1, 16/1, 17/1, 18/1, 19/1, 20/1, 21/1, 22/1, 23/1, 24/1, 25/1, 26/1, 27/1, 28/1, 29/1, 30/1, 31/1, 1/2, 2/2, 3/2, 4/2, 5/2, 6/2, 7/2, 8/2, 9/2, 10/2, 11/2, 12/2, 13/2, 14/2, 15/2, 16/2, 17/2, 18/2, 19/2, 20/2, 21/2, 22/2, 23/2, 24/2, 25/2, 26/2, 27/2, 28/2, 29/2, 30/2, 31/2, 1/3, 2/3, 3/3, 4/3, 5/3, 6/3, 7/3, 8/3, 9/3, 10/3, 11/3, 12/3, 13/3, 14/3, 15/3, 16/3, 17/3, 18/3, 19/3, 20/3, 21/3, 22/3, 23/3, 24/3, 25/3, 26/3, 27/3, 28/3, 29/3, 30/3, 31/3, 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 9/4, 10/4, 11/4, 12/4, 13/4, 14/4, 15/4, 16/4, 17/4, 18/4, 19/4, 20/4, 21/4, 22/4, 23/4, 24/4, 25/4, 26/4, 27/4, 28/4, 29/4, 30/4, 31/4, 1/5, 2/5, 3/5, 4/5, 5/5, 6/5, 7/5, 8/5, 9/5, 10/5, 11/5, 12/5, 13/5, 14/5, 15/5, 16/5, 17/5, 18/5, 19/5, 20/5, 21/5, 22/5, 23/5, 24/5, 25/5, 26/5, 27/5, 28/5, 29/5, 30/5, 31/5, 1/6, 2/6, 3/6, 4/6, 5/6, 6/6, 7/6, 8/6, 9/6, 10/6, 11/6, 12/6, 13/6, 14/6, 15/6, 16/6, 17/6, 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