

REPORT ON OIL ENGINE MACHINERY.

No. 16003

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Date of writing Report 12 May 1942 When handed in at Local Office

19

Port of Amsterdam

No. in Survey held at Amsterdam
Reg. Book.

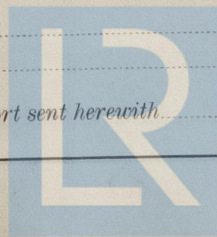
Date, First Survey 1 Sept 1941 Last Survey 6 May 1942

Number of Visits 12

Single
on the Twin } Screw Vessel Stet Motor 073
Triple }
Quadruple }Tons } Gross
Net

Built at By whom built Yard No. When built
Engines made at Amsterdam By whom made N. V. Werkspoor Engine No 073 When made 1942
Donkey Boilers made at By whom made Boiler No. When made
Brake Horse Power 400 Owners Port belonging to
Nom. Horse Power as per Rule 07 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
Trade for which vessel is intended

OIL ENGINES, &c.—Type of Engines T.M.A. S 270 2 or 4 stroke cycle 4 Single or double acting Single
Maximum pressure in cylinders 45 kg/cm² 10³ 1976 Diameter of cylinders 270 Length of stroke 500 No. of cylinders 2 No. of cranks 2
Mean Indicated Pressure 6.5 kg/cm² Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 310 mm Is there a bearing between each crank Yes
Revolutions per minute 300 Flywheel dia. 1120 mm Weight 1300 kg Means of ignition Solid magnet Kind of fuel used Diesel oil
Crank Shaft, { Solid forged as per Rule approved Crank pin dia. 220 mm Crank Webs Mid. length breadth 340 mm shrunk Thickness parallel to axis
Semi built dia. of journals as fitted 220 mm Mid. length thickness 220 mm Thickness around eyehole
AH built
Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule 114.5 Thrust Shaft, diameter at collars as per Rule approved 120.3
as fitted as fitted as fitted
Tube Shaft, diameter as per Rule Screw Shaft, diameter as per Rule Is the { tube } shaft fitted with a continuous liner {
as fitted as fitted as fitted
Bronze 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
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
Propeller, dia. Pitch No. of blades Material whether Moveable Total Developed Surface sq. feet
Method of reversing Engines by hand Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication
forced Thickness of cylinder liners 2.1 mm Are the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled or lagged with
non-conducting material 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. one rotary 16 km/hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel
Bilge Pumps worked from the Main Engines, No. one Diameter Stroke Can one be overhauled while the other is at work
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
Are two independent means arranged for circulating water through the Oil Cooler 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. one No. of stages 2 Diameters 100/120 Stroke 90 mm Driven by Main Motor
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. Diameter Stroke Driven by
Auxiliary Engines crank shafts, diameter as per Rule No. Position
as fitted
Have the Auxiliary Engines been constructed under special survey Is a report sent herewith



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AIR RECEIVERS:—Have they been made under survey no State No. of Report or Certificate 720-721 Garm King
Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes
Can the internal surfaces of the receivers be examined and cleaned yes Is a drain fitted at the lowest part of each receiver yes

Injection Air Receivers, No. ✓ Cubic capacity of each ✓ Internal diameter 500 mm thickness 12 mm
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 1240 Internal diameter 500 mm thickness 12 mm
Seamless, lap welded or riveted longitudinal joint no Material S.N.S. Range of tensile strength 30/344 Working pressure by Rules
Actual 30.4 MPa

IS A DONKEY BOILER FITTED? no If so, is a report forwarded? ✓

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

PLANS. Are approved plans forwarded herewith for Shafting ✓ Receivers ✓ Separate Fuel Tanks ✓
(If not, state date of approval) 20-6-39 25-4-42

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.

Shippert

WORKSPOOR N.V.

Manufacturer.

Dates of Survey while building { During progress of work in shops - 1941 Sep 1-3-9 Nov 26 Dec 16 1942 Feb 12 April 14-15-21-22-27 May 6
During erection on board vessel -
Total No. of visits

Dates of Examination of principal parts—Cylinders 2/11/41 Covers 21-22/41 Pistons Dec 16 Rods ✓ Connecting rods 12 Feb
Crank shaft 21 Feb 14 April Flywheel shaft ✓ Thrust shaft 16 Dec Feb 12 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 S.N.S. Identification Mark 440405 Flywheel shaft, Material ✓ Identification Mark ✓
Thrust shaft, Material S.N.S. Identification Mark HP B 21-4-42 Intermediate shafts, Material ✓ Identification Marks ✓
Tube shaft, Material ✓ Identification Mark 440405 Screw shaft, Material ✓ Identification Mark ✓
Identification Marks on Air Receivers 721-722 + AD

7. 1941
440405 SPESD 50 kg HP B 21-4-42

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 the vessel Nota 701 Ans up to 15 Feb 1
General Remarks (State quality of workmanship, opinions as to class, &c. ✓)

The Nota has been built under special survey in accordance with the approved plans and the Society's rules. Material duly tested. Workmanship throughout good.

The Nota is kept for stock.

The amount of Entry Fee .. £ :
Special ... 350 :
Donkey Boiler Fee 24 :
Travelling Expenses (if any) 10- :
When applied for, 15-5-1942
When received, 19-

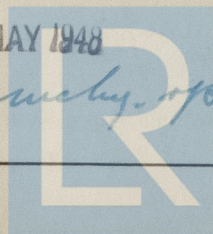
Committee's Minute

Assigned

not for Classing Committee See P.E. meeting report

FRI, 7 MAY 1948

Engineer Surveyor to Lloyd's Register of Shipping.



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