

REPORT ON OIL ENGINE MACHINERY.

No. 461^b

of writing Report 17-6-1950 When handed in at Local Office. 19 Port of Groningen
 in Survey held at Waterhuizen Date, First Survey 30-1-50 Last Survey 14-6-1950
 Book. Number of Visits 16

Single on the ~~Propeller~~ Screw vessel JOHNNY
 at Waterhuizen By whom built H.V. Lel. W. Gebr. Van Diepen
 Yards made at Amsterdam By whom made Werkspoor NV
 Key Boilers made at By whom made
 ke Horse Power 540 Owners G. Kuur
 Power as per Rule 120 119 NHP=108
 de for which vessel is intended Ocean trade Is Refrigerating Machinery fitted for cargo purposes. no Is Electric Light fitted. yes

Dimensions in mm
 ENGINES, &c. — Type of Engines T.M.S 300 13 2 or 4 stroke cycle 4 Single or double acting single
 imum pressure in cylinders 50 kg/cm² Diameter of cylinders 300 11 1/2 Length of stroke 400 16 1/8 No. of cylinders 8 No. of cranks 8
 n Indicated Pressure 6.96 kg/cm² Ahead Firing Order in Cylinders 1-4-7-6-8-5-2-3 Span of bearings, adjacent to the crank, measured
 inner edge to inner edge 390 Is there a bearing between each crank yes ✓ Revolutions per minute 325
 wheel dia. 1100 Weight 540 kg Moment of inertia of flywheel (lbs. in² or Kg.cm²) 1.2413 Means of ignition Comp. Kind of fuel used Diesel
 Solid forged dia. of journals as per Rule. 220 Crank pin dia. 200 Crank webs Mid. length breadth 310 Mid. length thickness 95 shrunk Thickness parallel to axis
 All built as fitted 220 Thrust Shaft, diameter at collars as fitted 100
 Wheel Shaft, diameter as per Rule. Intermediate Shafts, diameter as fitted 100
 e Shaft, diameter as per Rule. Screw Shaft, diameter as fitted 100
 ze Liners, thickness in way of bushes as per Rule. Thickness between bushes as fitted 100
 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.
 e 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-
 sive. 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
 f tube shaft. yes If so, state type. Rubber ring (as supplied) Length of bearing in Stern Bush next to and supporting propeller 640
 elli, dia. 1000 Pitch 1150 No. of blades 4 Material Bronze whether moveable. no Total developed surface 44.3 sq. feet
 nt of inertia of propeller (lbs. in² or Kg.cm²) Kind of damper, if fitted no
 od of reversing Engines By air Is a governor or other arrangement fitted to prevent racing of the engine when declutched. yes Means of
 ration. Thicker of cylinder liners 22 Are the cylinders fitted with safety valves. yes Are the exhaust pipes and silencers water cooled
 ged with non-conducting material. yes If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned
 to the engine funnel Cooling Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel. yes
 Pumps worked from the Main Engines, No. one Diameter 130 Stroke 90 Can one be overhauled while the other is at work.
 s connected to the Main Bilge Line No. and size two 2 1/2" 63 T/H one 2 1/2" 130 x 90
 How driven aux engines main engine
 cooling water led to the bilges. no If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping
 gements

st Pumps, No. and size 2 2 1/2" 63 T/H Power Driven Lubricating Oil Pumps, including spare pump, No. and size 2 2 1/2" 63 T/H
 wo independent means arranged for circulating water through the Oil Cooler. yes ✓ Suctions, connected to both main bilge pumps and auxiliary
 pumps, No. and size: In machinery spaces one 2 1/2" 60 T/H 1 2 1/2" 64 T/H In pump room.
 lds, &c. 2 2 1/2" forward, 2 2 1/2" aft.
 endent Power Pump Direct Suctions to the engine room bilges, No. and size one 2 1/2" 60 T/H, one 2 1/2" 64 T/H
 ll the bilge suction pipes in holds and tunnel well fitted with strum-boxes. yes ✓ Are the bilge suction in the machinery spaces led from easily
 ible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges. yes ✓
 ll Sea Connections fitted direct on the skin of the Ship. welded Are they fitted with valves or cocks. cocks ✓ Are they fixed
 ently 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. below
 hey 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. ✓
 pipes pass through the bunkers. no ✓ How are they protected. ✓
 pipes pass through the deep tanks. ✓ Have they been tested as per Rule. ✓

ll pipes, cocks, valves and pumps in connection with the machinery and all boiler mountings accessible at all times. yes ✓
 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
 es, or from one compartment to another. yes ✓ Is the shaft tunnel watertight. yes ✓ Is it fitted with a watertight door. ✓ worked from.
 wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork. ✓
 n Air Compressors, No. one ✓ No. of stages 2 diameters 120/100 stroke 90 driven by m. engine
 ilary Air Compressors, No. ✓ No. of stages 2 diameters 4 1/2" stroke 4 1/4" driven by m. engine
 ll Auxiliary Air Compressors, No. one ✓ No. of stages 2 diameters 4 1/2" stroke 4 1/4" driven by aux. engine
 t provision is made for first charging the air receivers. Both aux. engines hand started.
 enging Air Pumps, No. ✓ diameter stroke driven by

5 ilary Engines crank shafts, diameter as per Rule. Cert. Smith. D 360 1/2 No. 2 Position Port and Starboard
 the auxiliary engines been constructed under special survey. yes Is a report sent herewith. ✓
 014556 - 014565 - 0043

17/7/50

AIR RECEIVERS:—Have they been made under survey... *yes* ✓ State No. of report or certificate *Amst. 373*

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... *✓* thickness... *✓*

Seamless, welded or riveted longitudinal joint... *✓* Material... *✓* Range of tensile strength... *✓* Working pressure... *✓*

Starting Air Receivers, No... *2* ✓ Total cubic capacity... *1240 litres* Internal diameter... *500* thickness... *12*

Seamless, welded or riveted longitudinal joint... *✓* Material... *SM steel* Range of tensile strength... *41-41 1/2* Working pressure... *3*

IS A DONKEY BOILER FITTED... *no* ✓ 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... *14/2 '50* Receivers... *✓* Separate fuel tanks... *✓*

Donkey boilers... *✓* General pumping arrangements... *20-4-50* Pumping arrangements in machinery space... *20-4-50*

Oil fuel *burning* arrangements... *2-6-50*

Have Torsional Vibration characteristics been approved... *24-3-50* for *325 m* Date of approval... *✓*

SPARE GEAR.

Has the spare gear required by the Rules been supplied... *yes. for unrestricted voyages.*

State the principal additional spare gear supplied...

The foregoing is a correct description, *N.V. Machinebouw & Rep. bedrijf D. E. ROOIJER* Manufacturer.

Dates of Survey while building
During progress of work in shops... *Amsterdam Report 17225: 14 visits*
During erection on board vessel... *1950 Jan 30, Feb 8, March 30-30 April 5, 8-11 May 2-4-9-24-30 June 2-7-14*
Total No. of visits... *30*

Dates of examination of principal parts—Cylinders... *✓* Covers... *✓* Pistons... *✓* Rods... *✓* Connecting rods... *✓*

Crank shaft... *✓* Flywheel shaft... *✓* Thrust shaft... *✓* Intermediate shafts... *7-4-50* Tube shaft... *✓*

Screw shaft... *7-4-50* Propeller... *17-3-50* Stern tube... *30-3-50* Engine seatings... *8-4-50* Engine holding down bolts... *7-6-*

Completion of fitting sea connections... *8-4-50* Completion of pumping arrangements... *14-6-50* Engines tried under working conditions... *14-6-*

Crank shaft, material... *SM steel* Identification mark... *LR 8704* Flywheel shaft, material... *✓* Identification mark... *LR 171*

Thrust shaft, material... *SM steel* Identification mark... *✓* Intermediate shafts, material... *SM steel* Identification marks... *LR 171*

Tube shaft, material... *✓* Identification mark... *✓* Screw shaft, material... *SM steel* Identification mark... *LR 69*

Identification marks on air receivers... *NOS 1090-1091. 4604087 EST 60 kg. 1. W.D. 30 kg. 1. A.V.B. 14-3-50*

Welded receivers, state Makers' Name... *N.V. D. Plechmullery Veldren*

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* ✓

Description of fire extinguishing apparatus fitted... *3 x 10 litres foam*

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo... *no* ✓ 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... *no*

Is this machinery duplicate of a previous case... *no* If so, state name of vessel... *✓*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The Machinery of this vessel has been made and fitted in accordance with the Rules, approved plans and Secretary's letters. The Workmanship is good. The Machinery has been tested under full working condition and all found satisfactory. In our opinion the machinery of this vessel merits the approval of the Committee and is recorded in the Society's Register Book + L19C 6-50-6.*

The amount of Entry Fee ... £

Special *1/3 x 604.00* ... *£202.-* When applied for... *23.6.1950*

Donkey Boiler Fee... £ When received... *19*

Travelling Expenses (if any) £ *79.-*

Committee's Minute

Assigned *+LMC 6-50 Oil Eng. O.C.*

