

Rpt. 4b

REPORT ON OIL ENGINE MACHINERY.

No. 10529

Date of writing Report 1st March 27 When handed in at Local Office 10 Port of 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 Trade on the Trade Screw Vessel Motor Vessel "CLAM" 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 SESA Nov. 23 26

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 4 3/4" Is there a bearing between each crank Yes
Flywheel dia. 10' 0" Weight 9 tons Means of ignition Electric Kind of fuel used Diesel oil
Crank pin dia. 2 1/4" Crank Webs Mid. length breadth 4 1/2" Thickness parallel to axis 1 3/8"
Mid. length thickness 1 3/8" shrunk Thickness around eye hole 9/16"
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 25/100 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 fit
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 1/16"
Propeller, dia. 14' 6" Pitch 16' 3" No. of blades 4 Material Brass whether Moveable Solid Total Developed Surface 95 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 as per Rule approved

Thickness of cylinder liners as per Rule approved Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water cooled the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine to funnel
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 120/140 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" and 6" x 7" 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 capacity electric driven 2-110/150 stroke 300 mm
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 See list attached

In Holds, &c. 20" x 1 1/2"; Deep tank 30" x 2 1/2" Fwd. 40"; Cofferdam 40"; 2 1/2" x 1 1/2"; and 10" x 5"
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 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 ✓ How are they protected ✓
Do 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 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 ✓ 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. 2 No. of stages 3 Diameters 650/560-150 Stroke 550 Driven by main shaft
Auxiliary Air Compressors, No. 2 No. of stages 3 Capacity 300 cu. ft. per air per minute Stroke One Driven by Steam and
Small Auxiliary Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke by 5 cylinders 4 S.C.S.A. Diesel motor Driven by ✓
Savenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ 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 engines
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 manholes
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 cu. ft. Internal diameter 5 1/2 in thickness 2 1/2 in
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 cu. ft. Internal diameter 6 1/2 in thickness 1 1/2 in
Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 29/35 tons Working pressure by Rules 4.62 lb
Receiver for reversing gear, number 1 Capacity 12 cu. ft. Internal dia. 5 1/2 in thickness 1 1/2 in

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 *Plans* Receivers *li* Separate Tanks *Landed*
 (If not, state date of approval) *18/11/27* 14/1 15. Receivers 11.12.24. Pumping Arrangements 16.9.25. 13.3.26.
 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,

WERKSPPOOR

Manufacturer. *H. J. J. J.*

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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