

## REPORT ON OIL ENGINE MACHINERY.

No. 18915.

9-APR 1952

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No. in Survey held at Gothenburg Date, First Survey 12th April 1951 Last Survey 13th March, 19 52. Reg. Book. Number of Visits 69.

36242 on the ~~Triple~~ ~~Quadruple~~ Single Screw vessel Motor Tanker "A S T R I D O N S T A D" Tons Gross 14685 Net 8673

Built at Gothenburg By whom built Aktiebolaget Götaverken Yard No. 660 When built 1952

Engines made at Gothenburg By whom made Aktiebolaget Götaverken Engine No. 2239 When made 1952

Donkey Boilers made at Stockton By whom made Stockton Chemical Eng. & Riley Boilers Ltd. Boiler No. 7183/4 When made 1951

Brake Horse Power { Maximum 8200 640 Service 1640 Owners Rederi Aktiebolaget Monacus Port belonging to Kungsbacka

M.N. as per Rule 1640 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes

Trade for which vessel is intended General

**L ENGINES &c.** —Type of Engines Heavy oil, DM 760/1500 VG 9 2 or 4 stroke cycle 2 Single or double acting SA ✓

Maximum pressure in cylinders 49 kgs/cm<sup>2</sup> Diameter of cylinders 29.15/16" 760 mm. Length of stroke 59.1/16" 1500 mm. No. of cylinders 9 No. of cranks 9 ✓

Mean Indicated Pressure 6.60 kgs/cm<sup>2</sup> Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 974 mm. Is there a bearing between each crank Yes Revolutions per minute { Maximum 112 Service ---

Flywheel dia. 2368 mm. Weight 2640 kgs. Moment of inertia of flywheel (Kg.cm sec<sup>2</sup>) 20200 Means of ignition Comp. Kind of fuel used Diesel oil

Crank shaft, ~~Solid forged~~ ~~41mm dia.~~ dia. of journals as per Rule 520/130mm. Crank pin dia. 520/105mm Crank webs Mid. length breadth --- shrunk Thickness parallel to axis 320 mm. Mid. length thickness --- Thickness around eye-hole 250 mm.

Flywheel Shaft, diameter as per Rule --- Intermediate Shafts, diameter as per Rule 430 mm. Thrust Shaft, diameter at collars as per Rule 520 mm.

Tube Shaft, diameter as per Rule --- Screw Shaft, diameter as per Rule 477.5mm. at fwd end of prop. Is the screw shaft fitted with a continuous liner Yes ✓

Bronze Liners, thickness in way of bushes as per Rule 23&27mm. Thickness between bushes as per Rule 22.5 mm. 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. tight If two liners are fitted, is the shaft lapped or protected between the liners --- Is an approved Oil Gland fitted at the after end of stern tube --- If so, state type --- Length of bearing in Stern Bush next to and supporting propeller 2000 mm. ✓

Propeller, dia 5740 mm. Pitch 4385 mm. No. of blades 4 Material Bronze whether moveable --- Total developed surface 12.85 sq. met. ✓

Moment of inertia of propeller including entrained water (Kg.cm.sec<sup>2</sup>) 347500 Kind of damper, if fitted None fitted

Method of reversing Engines Direct with compr. air. Is a governor or other arrangement fitted to prevent racing of the engine Yes Means of lubrication Forced 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 led to a funnel Cooling Water Pumps, No. and how driven 4 electrically ✓ Working F.W. 1x5250 lit/m. ✓

W 1x5833 1/m. Spare F.W. 1x5250 1/m. S.W. 1x5833 1/m. 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. and capacity --- Can one be overhauled while the other is at work ---

No. and capacity of each	How driven
1 x 150 tons/hour.	El. driven
1 x 25 tons/hour.	El. driven
1 x 50 tons/hour.	Steam driven

Is the 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 arrangements. ---

Ballast Pumps, No. and capacity 1 x 150 tons/hour. Power Driven Lubricating Oil Pumps, including spare pump, No. and size 3x150 m<sup>3</sup>/hour

Are two independent means arranged for circulating water through the Oil Cooler Yes ✓ Branch Bilge Suctions

No. and size: In machinery spaces 3x3 1/2"; 2x3"; c/d fwd. 1x4"; c/d ER 1x3"; c/d aft 1x2" In pump room Fwd. 1x2 1/2"; c/d 1x5" Fwd. Main 3x3" Aft. Main 3x3"

In holds, &c. Dry cargo hold 2x2 1/2"; Handpump: c/d & aft. peak tank top 3x2"; c/d & fore peak tank top 3x2"

Direct Bilge Suctions to the engine room bilges, No. and size 1 x 5" and 1 x 7"

Are all the bilge suction pipes in holds ~~connected to the bilge~~ fitted with strum-boxes Yes ✓ Are the bilge suction pipes 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 Yes ✓

Are all Sea Connections fitted direct on the skin of the Ship boxes or on tank top Are they fitted with valves or cocks Both ✓ Are they fixed Above and 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 below

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 ✓

What pipes pass through the bunkers. No coal bunkers ✓ How are they protected ---

What pipes pass through the deep tanks. Heating coils ✓ Have they been tested as per Rule Yes ✓

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 tunnel 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. 2 ✓ No. of stages 2 diameters 280/320 mm. stroke 150 mm. driven by El. motors

Small Auxiliary Air Compressors, No. --- No. of stages --- diameters --- stroke --- driven by ---

What provision is made for first charging the air receivers. By the aux. air compressor. Current supplied by the steam driven generator. Also one separate scavenge pump to each cylinder.

Scavenging Air Pumps or Blowers No. 1x9; underside of each piston driven by a lever from each crosshead.

Auxiliary Engines Have they been made under survey. Yes ✓ Engine Nos. 2 oil and one steam aux. engine

Makers name Aktiebolaget Götaverken Position of each in engine room 1 oil engine and 1 steam engine on port side and 1 oil engine on starboard side of the Engine room floor. Report No. Report attached.

011610-011618-0024



AIR RECEIVERS:—Have they been made under survey. Yes State No./~~or~~ or certificate. C. 83420

State full details of safety devices. Springloaded safety valves

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. 28 m<sup>3</sup> Internal diameter. 6'-0" thickness. 1"

Seamless, welded or riveted longitudinal joint. welded Material. Steel Range of tensile strength. 28-32 tons/sq. inch. Working pressure. 356 lbs

IS A DONKEY BOILER FITTED Yes If so, is a report now forwarded. Yes

Is the donkey boiler intended to be used for domestic purposes only. No.

PLANS. Are approved plans forwarded herewith for shafting. L. 8.10.43 & 2.1.1950 Receivers. --- Separate fuel tanks. ---

Donkey boilers. --- General pumping arrangements. L 2.12.49. Pumping arrangements in machinery space. L 2.4.49.

Oil fuel burning arrangements.

Have Torsional Vibration characteristics been approved. Yes Date and particulars of approval. L. 8.10.1949 and 2.1.1950

#### SPARE GEAR.

Has the spare gear required by the Rules been supplied. Yes State if for "short voyages" only. ---

State the principal additional spare gear supplied. One propellershaft with nut, 4 fuel needle valves, 4 piston, a number of piston rings, 2 cylinder liners, 2 exhaust gas valves complete, 4 spindles and 4 valve seatings for exhaust gas valves, 1 complete main bearing, 1 complete fuel injection pump and 9 fuel oil pump chests with plungers.

The foregoing is a correct description and particulars of the installation as fitted are as approved for torsional vibration characteristics.

ARTIEBOLAGET GÖTAVERKEN

Manufacturer.

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - -

12th April, 1951 -

13th March, 1952.

Total No. of visits.

69

Dates of examination of principal parts—Cylinders. 12.11.51, 14.11.51, 15.11.51, 17.11.51, 18.11.51, 19.11.51, 20.11.51, 21.11.51, 22.11.51, 23.11.51, 24.11.51, 25.11.51, 26.11.51, 27.11.51, 28.11.51, 29.11.51, 30.11.51, 1.12.51, 2.12.51, 3.12.51, 4.12.51, 5.12.51, 6.12.51, 7.12.51, 8.12.51, 9.12.51, 10.12.51, 11.12.51, 12.12.51, 13.12.51, 14.12.51, 15.12.51, 16.12.51, 17.12.51, 18.12.51, 19.12.51, 20.12.51, 21.12.51, 22.12.51, 23.12.51, 24.12.51, 25.12.51, 26.12.51, 27.12.51, 28.12.51, 29.12.51, 30.12.51, 1.1.52, 2.1.52, 3.1.52, 4.1.52, 5.1.52, 6.1.52, 7.1.52, 8.1.52, 9.1.52, 10.1.52, 11.1.52, 12.1.52, 13.1.52, 14.1.52, 15.1.52, 16.1.52, 17.1.52, 18.1.52, 19.1.52, 20.1.52, 21.1.52, 22.1.52, 23.1.52, 24.1.52, 25.1.52, 26.1.52, 27.1.52, 28.1.52, 29.1.52, 30.1.52, 1.2.52, 2.2.52, 3.2.52, 4.2.52, 5.2.52, 6.2.52, 7.2.52, 8.2.52, 9.2.52, 10.2.52, 11.2.52, 12.2.52, 13.2.52, 14.2.52, 15.2.52, 16.2.52, 17.2.52, 18.2.52, 19.2.52, 20.2.52, 21.2.52, 22.2.52, 23.2.52, 24.2.52, 25.2.52, 26.2.52, 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