

REPORT ON OIL ENGINE MACHINERY.

No 16426

MON. 20 JUL 1925

Date of writing Report 10th July 1925 When handed in at Local Office

Port of HANZBURG

No. in Survey held at BERLIN & HANZBURG Date, First Survey 26th March 1912 Last Survey 25th June 1925
Reg. Book.

on the TWIN Triple Screw vessels.

AMERIKALAND

Tons Gross 15338
Net 4522

Master Built at HANZBURG By whom built DEUTSCHE WERFT Yard No. 50 When built 1920
Engines made at BERLIN By whom made A. E. G. TURBINENFABRIK Engine No. 172/74 When made 1920
Donkey Boilers made at HANZBURG By whom made DEUTSCHE WERFT A. G. Boiler No. 119 When made 1920
Brake Horse Power 2 x 2800 Owners AXEL BROSTRÖM & SON Port belonging to GÖTTENBURG
Nom. Horse Power as per Rule 1430 1313 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

OIL ENGINES, &c. Type of Engines 2 Vertical oil engines, Type B & W. 2 or 4 stroke cycle 4 Single or double acting single
Maximum pressure in cylinders 550 lb/sq. in. No. of cylinders 2 x 8 No. of cranks 2 x 8 Diameter of cylinders 740 mm.
Length of stroke 1200 mm. Revolutions per minute 110 mm. Means of ignition Diesel principle Kind of fuel used Diesel Gas oil
Is there a bearing between each crank Yes Span of bearings (Page 92, Section 2, par. 7 of Rules) 950 mm.
Distance between centres of main bearings 1500 mm. Is a flywheel fitted Yes Diameter of crank shaft journals as per Rule 455 mm.
as fitted 466 mm.
Diameter of crank pins 466 mm. Breadth of crank webs as per Rule 859 mm. (6 x 200 mm) as fitted 1020 mm. (6 x 207 mm) Thickness of ditto as per Rule 285 mm.
as fitted 300 mm.
Diameter of flywheel shaft as per Rule 453 mm. as fitted 456 mm. Diameter of tugger shaft as per Rule 312 mm. as fitted 316 mm. Diameter of thrust shaft as per Rule 228 mm.
as fitted 266 mm.
Diameter of screw shaft as per Rule 334 mm. as fitted 346 mm. Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes
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 joints burned Yes
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. If without liners, is the shaft arranged to run in oil.
Type of outer gland fitted to stern tube Length of stern bush 1725 mm. Diameter of propeller 4300 mm.
Pitch of propeller 3440 mm. No. of blades 4. state whether moveable No. Total surface 5.9 sq. m. square feet.
Method of reversing B & W. Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Thickness of cylinder liners 60 mm.
Are the cylinders fitted with safety valves Yes Means of lubrication forced lubrication Are the exhaust pipes and silencers water cooled or lagged with
non-conducting material Yes If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine.
No. of cooling water pumps 2 Is the sea suction provided with an efficient strainer which can be cleared
within the vessel Yes No. of bilge pumps fitted to the main engines 4 Diameter of ditto 100 mm. Stroke 180 mm.
Can one be overhauled while the other is at work Yes No. of auxiliary pumps connected to the main bilge lines 2 How driven electric.
Sizes of pumps See below. No. and sizes of suction connected to both main bilge pumps and auxiliary bilge pumps: In engine room 6 inch & 9 inch diam.
and in holds, etc. 6 inch & 9 inch - 2 inch & 1/2 inch diam. in Pump room No. of ballast pumps 4 How driven electric Sizes of pumps See below.
Is the ballast pump fitted with a direct suction from the engine room bilges No. Is a separate auxiliary pump suction fitted in
Engine Room and size Yes 100 mm. Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine Room always accessible Yes
Are the sluices on Engine Room bulkheads always accessible No. Are all connections with the sea direct on the skin of the ship Yes
Are they valves or cocks Valve & cocks. Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates Yes
Are the discharge pipes above or below the deep water line above & below Are they each fitted with a discharge valve always accessible on the plating of the vessel Yes
Are all pipes, cocks, valves and pumps in connection with the machinery accessible at all times Yes Are the bilge suction pipes, cocks and valves arranged so as to prevent any
communication between the sea and the bilges Yes Is the screw shaft tunnel watertight Is it fitted with a watertight door - machinery aft
Is it corked from If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

No. of main air compressors 2 No. of stages 3 Diameters 850-760-700 mm. Stroke 400 mm. Driven by main engine.
No. of auxiliary air compressors 10 Diameters 220-285-300 mm. Stroke 220 mm. Driven by aux. Diesel engine.
No. of small auxiliary air compressors 1 No. of stages 2 Diameters 100-140 mm. Stroke 100 mm. Driven by aux. Diesel engine.
No. of scavenging air pumps Diameter Stroke Driven by
Diameter of auxiliary Diesel Engine crank shafts as per Rule 160 mm. as fitted 170 mm. Are the air compressors and their coolers made so as to be easy of access Yes

AIR RECEIVERS: No. of high pressure air receivers 8 and 11 inches each Internal diameter
Material Steel Seamless, lap welded or riveted longitudinal joint Material Steel Seamless, lap welded or riveted longitudinal joint
Thickness 15-18-21-25-17 mm. Working pressure by Rules 75.4-69-87.4-97-416 kg. No. of starting air receivers 2 Internal diameter 1850 mm.
Total cubic capacity 144.5 cu. m. Material S. M. Steel Seamless, lap welded or riveted longitudinal joint rivet. long. joint.
Range of tensile strength 44-5 kg/cm² thickness 25.4 mm. Working pressure by rules 25.6 kg/cm² 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 Yes What means are provided for cleaning their
inner surfaces Hammer over & manual Is there a drain arrangement fitted at the lowest part of each receiver



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