

# REPORT ON OIL ENGINE MACHINERY.

No. 11585.

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on the Single Screw vessel DESIGNATED "ARSENAL II" Tons Gross Net

uilt at Lisbon By whom built Arsenal do Alfite Yard No. When built Engines made at Copenhagen By whom made A. Bismuth & Wain Engine No. 3624 When made 1943 Monkey Boilers made at By whom made Boiler No. When made Brake Horse Power 4400 at 120 revs. 4900 at 125 revs. Port belonging to om. Horse Power as per Rule 935 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Trade for which vessel is intended

ENGINES, 8c. Type of Engines 962 VF DIESEL, TRUNK PISTON, SOLID INJECT. 2 or 4 stroke cycle 2 Single or double acting SINGLE. Maximum pressure in cylinders 49 kg/cm<sup>2</sup> Diameter of cylinders 620 mm Length of stroke 1150 mm No. of cylinders 9 No. of cranks 9 Indicated Pressure 6.5 kg/cm<sup>2</sup> of bearings, adjacent to the Crank, measured from inner edge to inner edge 796 mm Is there a bearing between each crank YES. revolutions per minute 120 Flywheel dia. 4200 kg - BALANCE Weights 60 = 15000 Means of ignition COMPRESSION Kind of fuel used HEAVY OIL Crank pin dia. 435 mm Crank Webs Mid. length breadth 1020 mm Thickness parallel to axis 270 mm dia. of journals as per Rule 415 mm as fitted 435 mm 115 mm CENTR. HOLE. Mid. length thickness 220-230 mm Thickness around eyehole 257.5 mm wheel Shaft, diameter as per Rule 340 mm as fitted 350 mm Thrust Shaft, diameter at collars as per Rule 357 mm as fitted 400 mm be Shaft, diameter as per Rule 389.5 mm as fitted 405 mm Is the shaft fitted with a continuous liner No. 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 peller boss If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner 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 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 Length of Bearing in Stern Bush next to and supporting propeller 1650 mm propeller, dia. 4950 mm Pitch 3550 mm No. of blades 4 Material CR. STEEL whether Moveable No. Total Developed Surface 8.8 m<sup>2</sup> Method of reversing Engines DIRECT REVERS. Is a governor or other arrangement fitted to prevent racing of the engine when disengaged YES Means of lubrication Thickness of cylinder liners 42 mm Are the cylinders fitted with safety valves YES Are the exhaust pipes and silencers water cooled or lagged with 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 1 OFF 2-CYL. SEA WATER 190 TS CHAIN DRIVEN. 1-H-2-CYL. F.W. 190 TS Is the sea suction provided with an efficient strainer which can be cleared within the vessel

ing Water Pumps, No. 1 & 2 Diameter 165 mm Stroke 230 mm Can one be overhauled while the other is at work ge Pumps worked from the Main Engines, No. 2 Diameter 165 mm Stroke 230 mm Can one be overhauled while the other is at work ps connected to the Main Bilge Line No. and Size How driven he 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 ngements last Pumps, No. and size Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 1 OFF 190 TS, CHAIN DRIVEN 2 OFF 12x12 STEAM DRIVEN two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge ps, No. and size:—In Machinery Spaces In Pump Room

ependent Power Pump Direct Suctions to the Engine Room Bilges, No. and size all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions in the Machinery Spaces from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Are they fitted with Valves or Cocks all Sea Connections fitted direct on the skin of the ship Are the Overboard Discharges above or below the deep water line hey fixed sufficiently high on the ship's side to be seen without lifting the platform plates Are the Blow Off Cocks fitted with a spigot and brass covering plate hey each fitted with a Discharge Valve always accessible on the plating of the vessel How are they protected pipes pass through the bunkers Have they been tested as per Rule pipes pass through the deep tanks all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

e 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 artment to another Is the Shaft Tunnel watertight 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 a Air Compressors, No. No. of stages Diameters Stroke Driven by liary Air Compressors, No. No. of stages Diameters Stroke Driven by Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by

provision is made for first Charging the Air Receivers. enging Air Pumps, No. 2 OFF ROTARY CAPACITY 2 x 2 1/4 M<sup>3</sup>/MIN. Stroke Driven by MAIN ENGINE. liary Engines crank shafts, diameter as per Rule as fitted Position the Auxiliary Engines been constructed under special survey Is a report sent herewith



AIR RECEIVERS:—Have they been made under survey

YES

State No. of Report or Certificate

Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Can the internal surfaces of the receivers be examined and cleaned

Is a drain fitted at the lowest part of each receiver

Injection Air Receivers, No.

Cubic capacity of each

Internal diameter

thickness

Seamless, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure

by Rules  
Actual

Starting Air Receivers, No.

Total cubic capacity

Internal diameter

thickness

Seamless, lap welded or riveted longitudinal joint

RIVETED

Material

Range of tensile strength

Working pressure

by Rules  
Actual

IS A DONKEY BOILER FITTED?

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

(If not, state date of approval)

YES

Receivers

YES

Separate Fuel Tanks

YES

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

One propeller shaft complete.

The foregoing is a description,

BURMEISTER & WAIN'S MASKIN OG SKIBS BYGGERI

Manufacturer.

Dates of Survey while building  
During progress of work in shops--  
During erection on board vessel--  
Total No. of visits

Dates of Examination of principal parts—Cylinders

Crank shaft

Screw shaft

Completion of fitting sea connections

Crank shaft, Material

Thrust shaft, Material

CONN. RODS

Tube shaft, Material

Identification Marks on Air Receivers

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