

REPORT ON OIL ENGINE MACHINERY.

No. 97503

MAY 27 1939

Date of writing Report 20/5/39 When handed in at Local Office 26/5/39 Port of

Received at London Office NEWCASTLE-ON-TYNE

No. in Survey held at Newcastle on Tyne

Date, First Survey 27/4/38

Last Survey 24/5/39

on the Single motor "SOBIESKI"
Twin Screw vessel
Triple
Quadruple

Number of Visits 95

Tons Gross 11030
Net 6351

Built at Newcastle

By whom built Swan, Hunter & Wigham

Yard No. 1572 When built 1939-5

Engines made at Greenock

By whom made J.G. Kencaid & Co. Ltd

Engine No. 113 When made 1939.

Monkey Boilers made at Renfrew

By whom made Babcock & Wilcox & Co. Ltd

Boiler No. 73/14669 When made 1939

Indicated Horse Power 8700

Owners Gdynia - America Shipping Lines

Port belonging to GDYNIA.

nom. Horse Power as per Rule 1716

Is Refrigerating Machinery fitted for cargo purposes Yes

Is Electric Light fitted Yes

Trade for which vessel is intended Open sea.

TYPE OF ENGINES, &c. Type of Engines Heavy Oil, Airless Injection 2 or 4 stroke cycle 2 Single or double acting double

Maximum pressure in cylinders 49 Kg/cm² Diameter of cylinders 450 m.m. Length of stroke 1200 mm. No. of cylinders 16. No. of cranks 16.

Distance between bearings, adjacent to the Crank, measured from inner edge to inner edge 854 m.m. Is there a bearing between each crank Yes

Revolutions per minute 125. Flywheel dia. 2400 mm. Means of ignition Compression Kind of fuel used Heavy oil.

Crank Shaft, dia. of journals as per Rule as fitted Crank pin dia. Crank Webs Mid. length breadth Mid. length thickness Thickness parallel to axis Thickness around eye-hole

Intermediate Shafts, diameter as per Rule 13.5 as fitted 13 1/2 Thrust Shaft, diameter at collars as per Rule as fitted See Greenock Rpt.

Screw Shaft, diameter as per Rule 14.77 as fitted 15 9/16 Is the shaft fitted with a continuous liner Yes

Oil Liners, thickness in way of bushes as per Rule as fitted 9/32 Thickness between bushes as per rule as fitted 7/8 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 In one piece

When 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 fit.

When 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

Propeller, dia. 15'-3" Pitch 15'-1" No. of blades 4 Material Bronze whether Moveable No Total Developed Surface 83 sq. feet

Method of reversing Engines Direct Is a governor or other arrangement fitted to prevent racing of the engine when disengaged Yes Means of lubrication forced

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with conducting material Lagged

Bilge Pumps, No. 2-11 S.W. 500 tons/hr Is the sea suction provided with an efficient strainer which can be cleared within the vessel F.W. for jackets. Steamers on S.W. Suction.

Are pumps connected to the Main Bilge Line No. and Size Ball. 150 tons/hr; Bilge 125 tons/hr; Bilge & Fore 125 tons/hr; Emerg. Bilge 115 tons/hr How driven all Elec. motor driven Gen. Serv. Fore 125 tons/hr

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

Oil Pumps, No. and size 4-10" 2 Bilge 125" Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 4-10" of 225 tons/hr

Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

Are pumps, No. and size:—In Machinery Spaces 2 of 3 1/2" & 3 of 3"; Funnel well 1 of 2 1/2"; Fore pipe tunnel 2" drain to cofferdam thro' In Pump Room A.R. Valve

Are independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 3 of 6" bare (2 on P & 1 on S.)

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 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 Yes 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 both

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 all pipes pass through the bunkers None How are they protected

Do all pipes pass through the deep tanks None 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 Yes Is it fitted with a watertight door Yes worked from "D" Deck.

On a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

Auxiliary Air Compressors, No. None (airless Injection) No. of stages Diameters Stroke Driven by

Auxiliary Air Compressors, No. 2 No. of stages 2 each 212. cub. ft. per min. London Certf. D. 797. Driven by Elec. motors

Auxiliary Air Compressors, No. 1 No. of stages 2 25. cub. ft. per min. London Certf. D. 798. Driven by Single Cyl. oil lub. Hand starting.

Blowers Ventilating Air Pumps, No. Two on each Engine Diameter Burmeister & Wain Rotary Type Driven by Main Engines

Auxiliary Engines crank shafts, diameter as per Rule as fitted See London Rpt No 106387. No. 3 - 450 KW oil lub. Dynamo Sets in Main Eng. Room + Manch " " 9337. Position 1 - 46 KW oil lub. Dyno Set for Emergency lighting abaft E.R. on D Deck.



