

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 31st March 1927 When handed in at Local Office 13th May 1927 Port of Greenock  
 No. in Survey held at Greenock Date, First Survey 18th January 1927 Last Survey 31st March 1927  
 Reg. Book. on the SS "SWAN" (Number of Volls 5)  
 Built at Greenock By whom built George Brown & Co. Ltd Yard No. 157 Tons Gross ✓  
 Engines made at Glasgow By whom made McKie & Baxter Ltd Engine No. when made  
 Boilers made at Glasgow By whom made " Boiler No. when made  
 Registered Horse Power Owners Not Known Port belonging to NONE  
 Nom. Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted ✓

of **ENGINES, &c.**—Description of Engines

Dia. of Cylinders ✓ Length of Stroke ✓ Revs. per minute ✓ No. of Cylinders ✓ No. of Cranks ✓  
 Dia. of Crank shaft journals as per rule ✓ Dia. of Crank pin ✓ Crank webs Mid. length breadth ✓ Thickness parallel to axis ✓  
as fitted ✓ Mid. length thickness ✓ shrunk Thickness around eye-hole ✓  
 Diameter of Thrust shaft under collars as per rule ✓ Diameter of Tunnel shaft as per rule ✓ Diameter of Screw shaft as per rule ✓ Is the Screw shaft  
as fitted ✓ as fitted ✓ as fitted ✓  
 fitted with a continuous liner the whole length of the stern tube No liners ✓ Is the after end of the SHAFT made watertight in the propeller boss yes ✓  
 If the liner is in more than one length are the joints burned ✓ If the liner does not fit tightly at the part  
 between the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive ✓  
 If two liners are fitted, is the shaft lapped or protected between the liners ✓ Is an appliance fitted at the after end of the shaft to permit  
 of it being efficiently lubricated yes ✓ Length of Stern Bush ✓ Diameter of Propeller ✓  
 Pitch of Propeller ✓ No. of Blades ✓ State whether Moveable ✓ Total Surface ✓ square feet.  
 No. of Feed Pumps fitted to the Main Engines ✓ Diameter of ditto ✓ Stroke ✓ Can one be overhauled while the other is at work ✓  
 No. of Bilge Pumps fitted to the Main Engines ✓ Diameter of ditto ✓ Stroke ✓ Can one be overhauled while the other is at work ✓  
 Total number and size of power driven Feed and Bilge Auxiliary Pumps ✓  
 No. and size of Pumps connected to the Main Bilge Line ✓  
 No. and size of Ballast Pumps ✓ No. and size of Lubricating Oil Pumps, including Spare Pump ✓  
 Are two independent means arranged for circulating water through the Oil Cooler ✓ No. and size of suction connected to both Main Bilge Pumps and Auxiliary  
 Bilge Pumps;—In Engine and Boiler Room ✓ and in Holds, &c. ✓

No. and size of Main Water Circulating Pump Bilge Suctions ✓ No. and size of Donkey Pump Direct Suctions ✓  
 to the Engine Room Bilges ✓ Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes ✓  
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges ✓  
 Are all connections with the sea direct on the skin of the ship Yes ✓ Are they Valves or Cocks both ✓  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes ✓ Are the Discharge Pipes 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 ✓  
 What Pipes are carried through the bunkers ✓ How are they protected ✓  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times ✓  
 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 ✓ Is the Screw Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

MAIN BOILERS, &c.—(Letter for record ✓) Total Heating Surface of Boilers ✓

Is Forced Draft fitted ✓ No. and Description of Boilers ✓ Working Pressure ✓

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

PLANS. Are approved plans forwarded herewith for Shafting ✓ Main Boilers ✓ Auxiliary Boilers ✓ Donkey Boilers ✓  
 (If not state date of approval)

General Pumping Arrangements ✓ Oil fuel Burning Piping Arrangements ✓

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.



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(1927) January 18. March 21-24-25-31.  
 During progress of work in shops - -  
 Dates of Survey while building  
 During erection on board vessel - - -  
 Total No. of visits 5.

Dates of Examination of principal parts - Cylinders ✓ Slides ✓  
 Covers ✓ Pistons ✓ Rods ✓  
 Connecting rods ✓ Crank shaft ✓ Thrust shaft ✓  
 Tunnel shafts ✓ Screw shaft ✓ Propeller ✓  
 Stern tube ✓ Engine and boiler seatings 21-3-24 Engines holding down bolts ✓  
 Completion of pumping arrangements ✓ Boilers fixed ✓ Engines tried under steam ✓  
 Completion of fitting sea connections 31-3-27 Stern tube 25-3-27 Screw shaft and propeller 31-3-27.  
 Main boiler safety valves adjusted Thickness of adjusting washers  
 Material of Crank shaft Identification Mark on Do.  
 Material of Thrust shaft Identification Mark on Do.  
 Material of Tunnel shafts Identification Marks on Do.  
 Material of Screw shafts Identification Marks on Do.  
 Material of Steam Pipes Test pressure Date of Test  
 Is an installation fitted for burning oil fuel Is the flash point of the oil to be used over 150°F.  
 Have the requirements of the Rules for carrying and burning oil fuel been complied with  
 Is this machinery duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

The sea connections, tail shaft and propeller, and stern tube have been satisfactorily fitted on board. The vessel has now left for Glasgow for installation of machinery.  
 Glasgow Surveyors notified

Certificate to be sent to  
 The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee	... £	:	:	When applied for,
Special	... £	:	:	19
Donkey Boiler Fee	... £	✓	:	When received,
Travelling Expenses (if any)	£	:	:	19

Committee's Minute GLASGOW 17 MAY 1927

Assigned See Glasgow P.C. Report No. 46649.

*J. H. Avey*

Engineer Surveyor to Lloyd's Register of Shipping.



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