

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

1 APR 1925

Date of writing Report 25/3/25 When handed in at Local Office 26/3/25 Port of Greenock
 No. in Survey held at Greenock Date, First Survey 30th October, 1924. Last Survey 24th March, 1925
 Reg. Book. on the T/S/S "Rawalindi" (Number of Visits 18)
 Built at Greenock By whom built Harland & Wolff Ltd Yard No. 660 Tons 1925
 Engines made at Belfast By whom made Harland & Wolff Ltd Engine No. 1925
 Boilers made at Belfast By whom made Harland & Wolff Ltd Boiler No. 1925
 Registered Horse Power _____ Owners P. Osterhaus & Co Port belonging to Greenock
 Nom. Horse Power as per Rule _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

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 _____
 filled with a continuous liner the whole length of the stern tube _____ Is the after end of the liner made watertight in the propeller boss _____
 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 approved appliance fitted at the after end of the shaft to permit
 of it being efficiently lubricated _____ 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 size sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ Are the Discharge Pipes above or below the deep water line _____
 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.

(1924) October 20 - November 20 - December 3, 9, 17, 26 - (1925) January 10 - February 6, 12, 24, 26 - March 4, 5, 6, 12.
 During progress of work in shops - - 13, 20, 24.
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits 18

Dates of Examination of principal parts - Cylinders ✓ Slides ✓
 Covers ✓ Pistons ✓ Rods ✓
 Connecting rods ✓ Crank shaft ✓ Thrust shaft ✓
 Tunnel shafts ✓ Screw shaft ✓ Propeller ✓
 Stern tube 20-12-24 Engine and boiler seatings 26-2-25 Engines holding down bolts ✓
 Completion of pumping arrangements ✓ Boilers fixed ✓ Engines tried under steam
 Completion of fitting sea connections 24/3/25 Stern tube 10-1-25 Screw shaft and propeller 26-2-25
 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. Seating bolts in oil fuel tanks fitted to 250 lbs (hydraulic) circulars fitted on board. Propellers & shafts fitted. This vessel has now proceeded to Belfast at which port the machinery will be fitted on board.

The Shareholders 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

W. Gordon-Mitchell
 Engineer Surveyor to Lloyd's Register of Shipping.
 TUES. 15 SEP 1925

Committee's Minute GLASGOW 31. 1925
 Assigned Deferred

See Bel No. 9412