

No. 6073

Received at London Office... FEB 22 19

Survey held at Glydebank Date, First Survey 16:6:38 Last Survey 13-2- 1959

Turbines Ahead 2 ✓ ~~Direct coupled,~~
Astern 2 ✓ ~~single reduction geared~~ } to 1 propelling shaft. No. of primary pinions to each set of reduction gearing 2
~~double reduction geared~~

coupled to { Alternating Current Generator phase periods per second } rated Kilowatts Volts at revolutions per minute
 supplying power for driving Propelling Motors, Type
 Kilowatts Volts at revolutions per minute. Direct coupled, single or double reduction geared to propelling shaft

Horse Power at each turbine	H.P.	3000 ✓	Revolutions per minute, at full power, of each Turbine Shaft	H.P.	2100 ✓	1st reduction wheel	395			
	I.P.	✓		I.P.	✓		main shaft	92 ✓		
	L.P.	3000 ✓		L.P.	2100 ✓					
Shaft diameter at journals	H.P.	7 1/2" ✓	Pitch Circle Diameter	1st pinion	13.9258"	1st reduction wheel	74.128"	Width of Face	1st reduction wheel	16"
	I.P.	✓		2nd pinion	24.209"	main wheel	103.907"		main wheel	43"
	L.P.	7 1/2" ✓								

Pinion Shafts, diameter at bearings

External	1st { 3" ✓	2nd { 14" ✓	diameter at bottom of pinion teeth { 1st 13.78
Internal	1st { 3" ✓	2nd { solid	2nd 23.63

Shaft, diameter as per rule.....
as fitted.....

Is the { tube } shaft fitted with a continuous liner { screw }

Bronze Liners, thickness in way of bushes as per rule.....

If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a material insoluble in water and non-corrosive _____

If two liners are fitted, is the shaft lapped or protected between the liners _____

Is an approved Oil Gland appliance fitted at the after end of the tube shaft _____

Length of Bearing in Stern Bush next to and supporting propeller _____

No. of Turbines fitted with astern wheels	Feed Pumps	No. and size
		How driven
connected to the Main Bilge Line		No. and size

No. and size :—In Engine and Boiler Room.....

Are the Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks

Are the Sea Connections fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Overboard Discharges above or below the deep water line

types, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times.

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

ent to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from Lloyd's Re Foundation

1055-03

BOILERS, &c. (Letter for record) Total Heating Surface of Boilers Working Pressure
 Is Forced Draft fitted No. and Description of Boilers
 Is a Report on Main Boilers now forwarded? If so, is a report now forwarded?
 Is a Donkey Boiler fitted? Main Boilers Auxiliary Boilers Donkey Boilers
 (an Auxiliary) Boiler fitted?
 Plans. Are approved plans forwarded herewith for Shafting Oil Fuel Burning Arrangements
 (If not state date of approval) General Pumping Arrangements
 Superheaters
 Spare Gear. State the articles supplied:—

FOR JOHN BROWN & CO., LIMITED
 Clydebank Secretary.

The foregoing is a correct description,
 Dates of Survey while building During progress of work in shops -- 1938 June: 16, 24 Aug: 8, 10, 16, 18, 25, 30 Sep: 1, 5, 7, 12, 13, 14, 15, 20, 21, 28 Oct: 3, 5, 7, 11
 During erection on board vessel -- 17, 18, 20, 24, 26, 27, 28, 31 Nov: 1, 2, 3, 4, 7, 8, 9, 10, 15, 16, 17, 18, 22, 23, 24, 25, 28, 29 Dec: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 (1939) Jan: 5, 6, 9, 12, 13, 17, 18, 20, 23, 31 Feb: 3, 6, 7, 8, 13
 Total No. of visits (82) 9, 12, 14, 15, 19, 21, 22, 29, 30
 Dates of Examination of principal parts—Casings 14-9-38 Rotors 12-9-38 Blading 27-10-38 Gearing 18-8-38
 Wheel shaft 8-8-38 Thrust shaft Intermediate shafts Tube shaft Screw shaft
 Propeller Stern tube Engine and boiler seatings Engine holding down bolts
 Completion of pumping arrangements Boilers fixed Engines tried under steam
 Main boiler safety valves adjusted Thickness of adjusting washers
 Rotor shaft, Material and tensile strength S. 36.4 to 38.6 Identification Mark H.P. S. 83
 Flexible Pinion Shaft, Material and tensile strength none Identification Mark L.P. S. 84
 Pinion shaft, Material and tensile strength W.S. 45.0 to 46.6 Identification Mark H.P. S. 84
 1st Reduction Wheel Shaft, Material and tensile strength S. 35.8 to 38.4 Identification Mark L.P. S. 84
 Wheel shaft, Material S Identification Mark S. 8198 Thrust shaft, Material Identification Mark
 Intermediate shafts, Material Identification Marks Tube shaft, Material Identification Marks
 Screw shaft, Material Identification Marks Steam Pipes, Material Test pressure
 Is an installation fitted for burning oil fuel
 Date of test
 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 a duplicate of a previous case No If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery of this vessel has been built under special survey in accordance with the approved plans and the Society's Rules and requirements materials and workmanship are good.
 This machinery has been satisfactorily fitted on board the vessel, tried under running conditions and found good. The machinery is eligible, in my opinion, to be used of +N.E. 7.40
 The machinery has been shipped to Falmouth for fitting on board

20/2/39
 The amount of Entry Fee ... £ : :
 Special ... £ 52 : 4
 Donkey Boiler Fee 1/5 £ 26 : 2
 Travelling Expenses (if any) £ : :
 When applied for, 21 FEB 1939
 When received, 5th April 1939 at Glasgow as per Sec 4 C 4 5/4/39
 8th August 1940 R.B.S. 8/8/40
 Committee's Minute GLASGOW 21 FEB 1939
 Assigned S. J. Cairns, R. J. Morris
 Engineer Surveyor to Lloyd's Register of Shipping.
 10,008
 d's Register Foundation