

REPORT ON MACHINERY.

No. 19990.

Received at London Office 31 JUL 1935

Date of writing Report 20-7-1935 When handed in at Local Office 26-7-1935 Port of Greenock Last Survey 14th July 1935

No. in Survey held at Port Glasgow Date, First Survey (Number of Visits) Tons { Gross 8030.75 Net 4803.68

Reg. Book. on the "MARWARR" Master Built at Glasgow By whom built W. Hamilton & Co. Ltd When built 1935

Engines made at Glasgow By whom made D. Rowan & Co. Ltd when made 1935

Boilers made at " By whom made " when made " Registered Horse Power Owners Port belonging to Glasgow Is Electric Light fitted Yes

Shaft Horse Power at Full Power Is Refrigerating Machinery fitted for cargo purposes No. of Turbines 3

TURBINE ENGINES, &c.—Description of Engines Single reduction geared turbine Diameter of Rotor Shaft Journals, H.P. L.P. Diameter of Pinion Shaft Diameter of Journals Distance between Centres of Bearings Diameter of Pitch Circle Diameter of Wheel Shaft Distance between Centres of Bearings Diameter of Pitch Circle of Wheel Diameter of Wheel Shaft Diameter of Tunnel Shaft Width of Face Diameter of Thrust Shaft under Collars Diameter of Tunnel Shaft No. of Screw Shafts 3 Diameter of same as per rule as fitted Diameter of Propeller Pitch of Propeller No. of Blades State whether Moveable Total Surface Diameter of Rotor Drum, H.P. L.P. Astern Thickness at Bottom of Groove, H.P. L.P. Astern Revs. per Minute at Full Power, Turbine Propeller

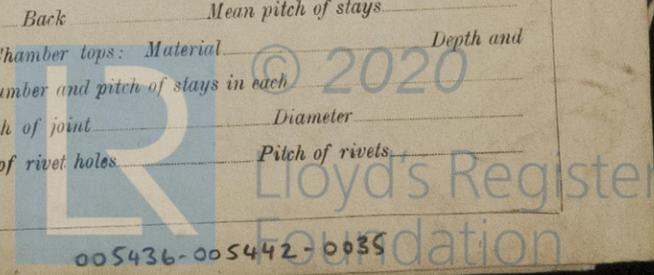
ARTICULARS OF BLADING.

	H.P.			L.P.			ASTERN.		
	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
1ST EXPANSION									
2ND									
3RD									
4TH									
5TH									
6TH									
7TH									
8TH									

No. and size of Feed pumps No. and size of Bilge pumps No. and size of Bilge suction in Engine Room In Holds, &c. Nos 1, 2, 3, 4 & 5 Holds & Deep Tank.

each 2-3 1/2" Tunnel Well 1-3 1/2" No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine Room & size Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are they Valves or Cocks both Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Discharge Pipes above or below the deep water line What pipes are carried through the bunkers None How are they protected Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record) Manufacturers of Steel Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers Date of test No. of Certificate Working Pressure Tested by hydraulic pressure to Area of fire grate in each boiler No. and Description of Safety Valves to each boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps Per centages of strength of longitudinal joint rivets plates Working pressure of shell by rules Size of manhole in shell Size of compensating ring No. and Description of Furnaces in each Boiler Material Outside diameter Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings bottom Thickness of plates bottom Working pressure of furnace by the rules Combustion chamber plates Material Thickness: Sides Back Top Bottom Working pressure by rules Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules Material of stays Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom Diameter at smallest part Area supported by each stay Working pressure by rules Working pressure of plate by rules Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Number and pitch of stays in each thickness of girder at centre Length as per rule Distance apart Diameter Working pressure by rules Steam dome: description of joint to shell 10% of strength of joint Diameter of rivet holes Pitch of rivets Thickness of shell plates Material Description of longitudinal joint Diameter of rivet holes How stayed Working pressure of shell by rules Crown plates: Thickness How stayed



Im. 11. 19. - T.

005436-005442-0035

20544

GENERAL REMARKS—(The Surveyor should state the Plans shown)

Rpt. 4a.

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Date of Test Pressure to which each is adjusted Is Easing Gear fitted
 Diameter of Safety Valve

IS A DONKEY BOILER FITTED?

SPARE GEAR. State the articles supplied:—

See Glasgow Report No. 55954
 The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
 During progress of work in shops --
 During erection on board vessel --- 1935 H/L 23 July 14
 Total No. of visits 2

Is the approved plan of main boiler forwarded herewith
 " " " donkey " " "

Dates of Examination of principal parts—Casings Rotors Blading Gearing
 Rotor shaft Thrust shaft Tunnel shafts Screw shaft Propeller
 Stern tube Steam pipes tested Engine and boiler seatings 23-4-35 Engines holding down bolts
 Completion of pumping arrangements 14-4-35 Boilers fixed Engines tried under steam
 Main boiler safety valves adjusted Thickness of adjusting washers
 Material and tensile strength of Rotor shaft Identification Mark on Do.
 Material and tensile strength of Pinion shaft Identification Mark on Do.
 Material of Wheel 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
 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 Section 49 of the Rules been complied with

Is this machinery a duplicate of a previous case If so, state name of vessel
 General Remarks (State quality of workmanship, opinions as to class, &c.) The propeller, tail shaft, stem tube & sea connections have been satisfactorily fitted on board. The bilge pumping arrangements in the Holds, has been fitted in accordance with the Rules & approved plans, tried & found satisfactory.

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

J. Davey
 Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 3 JAN 1936

Committee's Minute GLASGOW 30 JUL 1935

Assigned + L.M.C. 7.35
 on G.L. Rpt. 55954



Date of writing R
 No. in Survey Reg. Book.
 on the
 Built at
 Engines made
 Boilers made
 Shaft Horse
 Nom. Horse
 Trade for w
 STEAM T
 No. of Turbi
 direct coupled to
 for supplying p
 rated
 TURBINE
 BLADING
 1ST EXPANSI
 2ND "
 3RD "
 4TH "
 5TH "
 6TH "
 7TH "
 8TH "
 9TH "
 10TH "
 11TH "
 12TH "
 Shaft Hor
 Rotor Sh
 Distance
 Flexible Shafts,
 Wheel S
 Interme
 Screw S
 Thickness
 made by
 plastic m
 or other
 Propell
 If Singl
 Condens
 Pumps
 Ballas
 Are two
 Pumps,
 In Hol
 Main
 Bilges,
 Are the
 Are al
 Are the
 What
 What
 Are a
 Is the
 compa

P
 c
 n
 g
 g
 de
 we
 wh
 2
 nes
 for
 We
 6th
 pe
 do
 le
 ic
 ist
 ei
 in
 T
 T

11502
 20917
 20918
 20919
 20920
 20921
 20922
 20923
 20924
 20925
 20926
 20927
 20928
 20929
 20930
 20931
 20932
 20933
 20934
 20935
 20936
 20937
 20938
 20939
 20940
 20941
 20942
 20943
 20944
 20945
 20946
 20947
 20948
 20949
 20950
 20951
 20952
 20953
 20954
 20955
 20956
 20957
 20958
 20959
 20960
 20961
 20962
 20963
 20964
 20965
 20966
 20967
 20968
 20969
 20970
 20971
 20972
 20973
 20974
 20975
 20976
 20977
 20978
 20979
 20980
 20981
 20982
 20983
 20984
 20985
 20986
 20987
 20988
 20989
 20990
 20991
 20992
 20993
 20994
 20995
 20996
 20997
 20998
 20999
 21000