

REPORT ON MACHINERY.

No. 19663

of writing Report *2 Nov 1919* When handed in at Local Office *1919* Port of *Harport Mon* Received at London Office *TUE. 4-NOV. 1919*

in Survey held at *Chapstow* Date, First Survey *11 April* Last Survey *29 Feb 1919*
 on the *S/S War Apple (H class)* (Number of Visits *18*)

ter *✓* Built at *Chapstow* By whom built *E. Smith & Co (1916) Ltd* Tons *Gross 2590*
Thasgro By whom made *McKie & Butler* Net *1422*
 ines made at *Adbury* By whom made *Edwin Banks & Co* When built *1919*
 lers made at *Adbury* when made *1919*
 istered Horse Power *331* Owners *A Maritima Sociedade Anonima de Responsabilidade Ltd* Port belonging to *London*
 . Horse Power as per Section 28 *331* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

LINES, &c.—Description of Engines

In this Report No 38750

No. of Cylinders *2* No. of Cranks *2*
 Length of Stroke *10 1/2 in* Revs. per minute *180* Dia. of Screw shaft *as per rule* Material of screw shaft *as fitted*
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube *Yes*
 Is the after end of the liner made water tight *Yes*
 If the liner does not fit tightly at the part *Yes*
 Is the space charged with a plastic material insoluble in water and non-corrosive *Yes*
 If two *Yes*
 Is the shaft lapped or protected between the liners *Yes*
 Length of stern bush *as per rule*
 Dia. of Crank shaft journals *as per rule* Dia. of Crank pin *as fitted* Size of Crank webs *as fitted* Dia. of thrust shaft under *as fitted*
 Pitch of Screw *2 in* No. of Blades *2* State whether moveable *Yes* Total surface *as fitted*
 Diameter of ditto *10 1/2 in* Stroke *18 in* Can one be overhauled while the other is at work *Yes*
 Diameter of ditto *10 1/2 in* Stroke *18 in* Can one be overhauled while the other is at work *Yes*
 Sizes of Pumps *10 1/2 in*
 No. and size of Suctions connected to both Bilge and Donkey pumps *In Holds, &c. In hold P. 5 3" No 2 hold P. 5 3" No 3 hold P. 5 3" No 4 hold P. 5 3"*
 Bilge Injections *1 size 9 1/2 in* Connected to condenser or to circulating pump *Yes* Is a separate Donkey Suction fitted in Engine room & size *Yes 3 1/2 in*
 Are the roses in Engine room always accessible *Yes* Are the sluices on Engine room bulkheads always accessible *Yes*
 Are they Valves or Cocks *Valves, except blow downs*
 Are the Discharge Pipes above or below the deep water line *Yes*
 Are the Blow Off Cocks fitted with a spigot and brass covering plate *Yes*
 How are they protected *Wood casings*
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *Yes*
 Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *Yes*
 Screw Shaft Tunnel watertight *Yes* Is it fitted with a watertight door *Yes* worked from *Eng. Room top platform*
 Manufacturers of Steel *2 Sterling boilers made by British Corporation*
 Heating Surface of Boilers *5140 sq ft* Is Forced Draft fitted *Yes* No. and Description of Boilers *2 Sterling Water tube Marine*
 Tested by hydraulic pressure to *270 lbs* date of test *5. 26. 9. 19* No. of Certificate *Not issued*
 Area of fire grate in each boiler *67.75 sq ft* No. and Description of Safety Valves to *2*
 Area of each valve *8.945 sq ft* Pressure to which they are adjusted *180 lbs* Are they fitted with easing gear *Yes*
 Mean dia. of boilers *✓* Length *✓* Material of shell plates *✓*
 Range of tensile strength *✓* Are the shell plates welded or flanged *✓* Descrip. of riveting: cir. seams *✓*
 Diameter of rivet holes in long. seams *✓* Pitch of rivets *✓* Lap of plates or width of butt straps *✓*
 Working pressure of shell by rules *✓* Size of manhole in shell *✓*
 No. and Description of Furnaces in each boiler *✓* Material *✓* Outside diameter *✓*
 Thickness of plates *✓* Description of longitudinal joint *✓* No. of strengthening rings *✓*
 Combustion chamber plates: Material *✓* Thickness: Sides *✓* Back *✓* Top *✓* Bottom *✓*
 If stays are fitted with nuts or riveted heads *✓* Working pressure by rules *✓* End plates in steam space: *✓*
 Area at smallest part *✓* Area supported by each stay *✓* Working pressure by rules *✓* Material of stays *✓*
 How are stays secured *✓* Working pressure by rules *✓* Material of Front plates at bottom *✓*
 Area supported by each stay *✓* Working pressure by rules *✓* Material of Lower back plate *✓*
 Thickness *✓* Greatest pitch of stays *✓* Working pressure of plate by rules *✓*
 Material of tube plates *✓* Thickness: Front *✓* Back *✓* Mean pitch of stays *✓*
 Working pressures by rules *✓* Girders to Chamber tops: Material *✓* Depth and *✓*
 Length as per rule *✓* Distance apart *✓* Number and pitch of stays in each *✓*
 Steam dome: description of joint to shell *✓* % of strength of joint *✓*
 Thickness of shell plates *✓* Material *✓* Description of longitudinal joint *✓* Diam. of rivet holes *✓*
 Working pressure of shell by rules *✓* Crown plates *✓* Thickness *✓* How stayed *✓*

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

Pressure to which each is adjusted

Is Easing Gear fitted

IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

Yes

SPARE GEAR.

State the articles supplied:—

Two propellers. 2 Con: and Top & bottom end bolts & 1 main bearing bolts & nuts. Two set of coupling bolts nuts. Set of valves for duplex feed pumps & budge pumps & spare gear as per specification

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits

1919 H. 25 April. 9. 16 + 28 Aug. 2. 27 June 28 July 1. 5 + 28 July 5 + 2
1. 21. 22. 24 + 29 Nov
18
Is the approved plan of main boiler forwarded herewith
" " " donkey " " "

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods
Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller

Stern tube Steam pipes tested Engine and boiler seatings 1 Sept 1919 Engines holding down bolts 1 Sept

Completion of pumping arrangements 1st Sept 1919 Boilers fixed 26 Sept Engines tried under steam 21 Oct

Completion of fitting sea connections 11 April 1919 Stern tube 11 April 1919 Screw shaft and propeller 9 May

Main boiler safety valves adjusted 21 Oct 1919 Thickness of adjusting washers 5 Str 2 3/4" 4 1/2" 2 3/4" Pist 1 1/2" 4 1/2"

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 Lap welded steel Test pressure 540 lbs sq in

Is an installation fitted for burning oil fuel No Is the flash point of the oil to be used over 150°F. Yes

Have the requirements of Section 49 of the Rules been complied with Yes

Is this machinery duplicate of a previous case Yes If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) The Engines of this vessel have been built under Special Survey fitted on board & tried under with satisfactory results
The Stirling boilers have been built under Survey of the British Corporation (see Certificate attached) & on completion of erection in vessel tested to 270 lbs sq in pressure under steam & found satisfactory. The Machinery of this vessel is now eligible for the Record of LMC 10. 19.

It is submitted that this vessel is eligible for THE RECORD. LMC 10. 19. FD.

Subject to the Water Tube Boiler being surveyed annually.

Survey & Installation of Machinery.

The amount of Duty Fee
Special ... £ 22 : 5 : 6
Donkey Boiler Fee ... £ 14 : 5 : 6
Travelling Expenses (if any) £ : :
When applied for, 31 Oct 1919
When received, 6/11/19 1919 RBN

Committee's Minute

Assigned

FRI NOV 7 1919

P. M. C. 10-19 T. D. Subject

Engineer Surveyor to Lloyd's Register of Shipping



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