

REPORT ON MACHINERY.

No. 17404.
WED THU JAN 29 1919

Received at London Office

of writing Report 20 Jan 1919 When handed in at Local Office 24 Jan 1919 Port of Greenock
in Survey held at Greenock Date, First Survey 8th June, 1917; Last Survey 25 Jan 1919
Book. (Number of Visits 106.)

on the Steel Steamer War Anchusa
ter H.R. Man. Built at Greenock By whom built Card & Co Tons { Gross 5282.78
Net 3189.03
When built 1919.

ines made at Greenock By whom made Card & Co when made 1919.
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stered Horse Power Owners The Shipping Controller. Port belonging to London
Horse Power as per Section 28 517 Is Refrigerating Machinery fitted for cargo purposes yes Is Electric Light fitted yes

INES, &c.—Description of Engines Triple Compound No. of Cylinders Three No. of Cranks Three
of Cylinders 27-44-73 Length of Stroke 48 Revs. per minute 77 Dia. of Screw shaft as per rule 14.68 Material of Steel
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

e propeller boss yes If the liner is in more than one length are the joints burned yes If the liner does not fit tightly at the part
in the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes If two

are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 60 1/2
of Tunnel shaft as per rule 13.33 Dia. of Crank shaft journals as per rule 13.99 Dia. of Crank pin 1 1/2 Size of Crank webs 28.9 Dia. of thrust shaft under

1 1/4 Dia. of screw 17.6 Pitch of Screw 16.6 No. of Blades 4 State whether moveable no Total surface 98.2 sq ft
of Feed pumps Two Diameter of ditto 4 Stroke 2 1/2 Can one be overhauled while the other is at work yes

Bilge pumps Two Diameter of ditto 4 Stroke 2 1/2 Can one be overhauled while the other is at work yes
of Donkey Engines Two Sizes of Pumps 7.18 - 1 1/2 x 2 1/4 No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room Four 5 1/2 In Holds, &c. None 5 1/2 Tunnel 5 1/2
Circulating Pump Separate Engine

Bilge Injections one size 12 Connected to condenser, or to circulating pump no Is a separate Donkey Suction fitted in Engine room & size yes 5 1/2
the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible no

connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both
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 both

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
pipes are carried through the bunkers yes How are they protected yes

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 top of engine

ERS, &c.—(Letter for record S) Manufacturers of Steel Cottrell & Co - Newcastle

Heating Surface of Boilers 7668 3/4 Is Forced Draft fitted yes No. and Description of Boilers Three single ended
ing Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 30/5/18 No. of Certificate 1358

each boiler be worked separately yes Area of fire grate in each boiler 63.5 sq ft No. and Description of Safety Valves to
iler Two Spring Area of each valve 9.62 Pressure to which they are adjusted 185 lb Are they fitted with easing gear yes

distance between boilers or uptakes and bunkers or woodwork 2 1/2 Mean dia. of boilers 15.6 Length 11.6 Material of shell plates Steel
ss 1 1/2 Range of tensile strength 28-32 Are the shell plates welded or flanged yes Descrip. of riveting: cir. seams yes

ams all chip 3/4 Diameter of rivet holes in long. seams 15/16 Pitch of rivets 9/16 Lap of plates or width of butt straps 19 1/2
tages of strength of longitudinal joint 88.3 Working pressure of shell by rules 182 lb Size of manhole in shell 16-12

compensating ring Hanged 1 1/4 No. and Description of Furnaces in each boiler Three bright Material Steel Outside diameter 50 3/4
of plain part top Thickness of plates bottom 19/32 Description of longitudinal joint Welded No. of strengthening rings Cony

pressure of furnace by the rules 182 lb Combustion chamber plates: Material Steel Thickness: Sides 23/32 Back 1 1/16 Top 23/32 Bottom 23/32
stays to ditto: Sides 10 9/16 - 9 1/4 Back 10 1/2 - 8 3/4 Top 10 9/16 - 9 1/4 If stays are fitted with nuts or riveted heads no Working pressure by rules 180 lb

l of stays Steel Area at smallest part 2.45 Area supported by each stay 98.5 Working pressure by rules 222 lb End plates in steam space:
l Steel Thickness 1 1/2 Pitch of stays 2 1/4 How are stays secured all nuts Working pressure by rules 181 lb Material of stays Steel

smallest part 8.29 Area supported by each stay 4.73 Working pressure by rules 182 lb Material of Front plates at bottom Steel
s 3 1/2 Material of Lower back plate Steel Thickness 2 7/32 Greatest pitch of stays 13 5/8 Working pressure of plate by rules 187 lb

of tubes 2 3/4 Pitch of tubes 4 - 3 3/8 Material of tube plates Steel Thickness: Front 5/32 Back 13/16 Mean pitch of stays 9.81
cross wide water spaces 13 5/8 Working pressures by rules 181 lb Girders to Chamber tops: Material Steel Depth and

of girder at centre 10 - 14 Length as per rule 55.56 Distance apart 10 9/16 Number and pitch of stays in each Three 9 1/4
pressure by rules 187 lb Steam dome: description of joint to shell yes % of strength of joint yes

Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
rivets Working pressure of shell by rules Crown plates Thickness How stayed

HEATER. 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

iameter of Safety Valve

Card & Co

17404-0173

IS A DONKEY BOILER FITTED? *Same* If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— *Two top end bolts. Two bottom end bolts. Two main bearing bolts. One set coupling bolts. One set feed pump valves. One set bilge pump valves. One set check valves. Propeller. 16 P Piston valve. One set escape valve springs. Lampeller for circulating steam. Bolts nuts etc. Disc for engine with valve etc.*

The foregoing is a correct description,
FOR CAIRD AND COMPANY, LIMITED.

Misra

Manufacturer.

SECRETARY

(1917). June. 8. 20. 22. July. 24. 31. Aug. 2. 22. 31. Sep. 4. Oct. 5. 8. 22. 25. 31. Nov. 5. 9. 13. 27. 30. Dec. 4. 18. 21. 25. (1918).
 During progress of work in shops - - - 1. 16. 18. 21. 25. 29. Feb. 1. 5. 7. 13. 15. 19. 21. 27. Mar. 5. 7. 11. 14. 20. 26. Apr. 1. 4. 7. 12. 16. 18. 22. 25. 29. May. 2. 6. 9. 16. 21. 28. June. 4.
 During erection on board vessel - - - 18. 20. July. 18. 23. 26. 30. Aug. 2. 19. 23. 26. 30. Sep. 2. 11. 16. 20. 24. Oct. 1. 4. 7. 9. 22. 24. Nov. 6. 15. 29. Dec. 2. 4. 5. 7. 9. 12. 13. 17.
 Total No. of visits 106.

Is the approved plan of main boiler forwarded herewith *Yes*

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders *28/5/18* Slides *18/7/18* Covers *28/5/18* Pistons *18/7/18* Rods *18/6/18*
 Connecting rods *18/7/18* Crank shaft *4/6/18* Thrust shaft *4/6/18* Tunnel shafts *23/7/18* Screw shaft *24/10/18* Propeller *2/8/18*
 Stern tube *2/12/18* Steam pipes tested *at Glasgow* Engine and boiler seatings *9/12/18* Engines holding down bolts *25/12/18*
 Completion of pumping arrangements *17/1/19* Boilers fixed *25/12/18* Engines tried under steam *17/1/19*
 Completion of fitting sea connections *4/12/18* Stern tube *4/12/18* Screw shaft and propeller *7/12/18*
 Main boiler safety valves adjusted *17/1/19* Thickness of adjusting washers *Port 2 1/2 5 1/2 - Centre 2 1/2 5 1/2 - Starboard 2 1/2 5 1/2*
 Material of Crank shaft *Steel* Identification Mark on Do. *264* Material of Thrust shaft *Steel* Identification Mark on Do. *264*
 Material of Tunnel shafts *Steel* Identification Marks on Do. *264* Material of Screw shafts *Steel* Identification Marks on Do. *264*
 Material of Steam Pipes *Iron* Test pressure *540 lb*
 Is an installation fitted for burning oil fuel *Yes* 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 duplicate of a previous case *Yes* If so, state name of vessel *War Oni SR No 17348*

General Remarks (State quality of workmanship, opinions as to class, &c. *Workmanship good.*

The machinery and boilers of this steamer have been constructed under special survey and placed on board in accordance with the Society's Rules. They are now in my opinion in safe working condition and the case is respectfully submitted in the certification F. D and + L M C 1-19 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. + L M C 1-19 FD

JL
30/1/19

JL

James James
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ : : When applied for,
 Special ... £ 117 : 8 : *23rd Jan 1919*
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : *6.3. 19 1919*

Committee's Minute **GLASGOW 28 JAN 1919**

Assigned *+ L.M.C. 1, 19*



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Greenock

Certificate (if required) to be sent to

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

SHIRLEY EASTWICK
29/1/19