

REPORT ON MACHINERY.

No. 15586

TUE JAN. 14. 1919

Received at London Office

4.

Surveying Report 10th Jan 1919 When handed in at Local Office 11/1/19 Port of West Hartlepool
Survey held at West Hartlepool Date, First Survey 30th Jan 18 Last Survey 2nd Jan 1919
Book. on the steel screw steamer "War Sirocco" Number of Volls.

B. Allen Built at West Hartlepool By whom built Messrs. Brown & Co. (Ld.) Tons { Gross 3103.
Net 1865.
When built 1919

es made at Hartlepool By whom made Messrs. Richardson, North & Co. Ld. when made 1919

rs made at Glasgow By whom made Messrs. Robert & Milner Ld. when made 1919

tered Horse Power Owners The Shipping Controller Port belonging to Indian

Horse Power as per Section 28 513 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

INES, & Co. — Description of Engines Triple Expansion (Inverted by 180°) No. of Cylinders Three No. of Cranks Three

of Cylinders 25, 41, 68 Length of Stroke 45 Revs. per minute 80 Dia. of Screw shaft 13.58 as per rule 13.6 as fitted 14.5 Material of screw shaft Iron

screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight

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

en the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two

are fitted, is the shaft lapped or protected between the liners Length of stern bush 5' 0"

of Tunnel shaft as per rule 12.42 as fitted 12.41 Dia. of Crank shaft journals as per rule 13.1 as fitted 13.03 Dia. of Crank pin 13.1 Size of Crank webs 8 3/8 x 20 3/4 Dia. of thrust shaft under

re 13 1/2 Dia. of screw 16-0 Pitch of Screw 16-3 No. of Blades four State whether moveable no Total surface 75 1/2

of Feed pumps Two Diameter of ditto 4 1/2 Stroke 21 Can one be overhauled while the other is at work Yes

of Bilge pumps Two Diameter of ditto 2 1/2 Stroke 24 Can one be overhauled while the other is at work Yes

of Donkey Engines Two Sizes of Pumps General Service 7/8 H.P. No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room one 3/4 inch one 2 1/2 inch one 3 inch one 3 inch one 3 inch one 3 inch In Holds, &c. No 3 in each hold and tank and one 1 1/2

of Bilge Injections one size 11 Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size Yes 3 1/2

all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

all connections with the sea direct on the skin of the ship Are they Valves or Cocks Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate

at pipes are carried through the bunkers How are they protected

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

the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

tes of examination of completion of fitting of Sea Connections 14/10/18 of Stern Tube 23/10/18 Screw shaft and Propeller 18/1/18

the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from top platform

ILERS, & Co. — (Letter for record 3) Manufacturers of Steel Messrs. Colville & Messrs. Stuart & Lyle.

tal Heating Surface of Boilers 8289 Is Forced Draft fitted No. and Description of Boilers Two Water Tube (Babcock & Wilcox)

orking Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 20/12/18 No. of Certificate 3522

n each boiler be worked separately Area of fire grate in each boiler 84 1/2 No. and Description of Safety Valves to

ch boiler Two, Direct Spring Area of each valve 8.95 Pressure to which they are adjusted 185 lb Are they fitted with easing gear

allest distance between boilers or uptakes and bunkers or woodwork 2 ft Mean dia. of boilers Length Material of shell plates

ickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

g. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

er centages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell

ise of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

ength of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

orking pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

itch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

aterial of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

aterial Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

Diameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

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 Depth and

ickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each

Working pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

eparately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivets

oles Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

010563-010541-279

010563-010541-0282

Lloyd's Register Foundation

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two each top End, bottom End & Man. bearing bolts & nuts — one set each
one set Bilge Valve, Independent feed pump valve & two sets main & auxiliary feed
pump valves.

The foregoing is a correct description,

FOR RICHARDSON, WESTERH & CO. LIMITED

L. S. Hargrett

ASSISTANT GENERAL MANAGER

Manufacturer.

Dates of Survey while building { During progress of work in shops - 1918. Jan 30. Mar 15. Apr 17. 18. 29. 30. May 2. 6. 22. 23. 27. 30. June 3. 4. 5. 6. 7. 11. 12. 13. 20. 21. 22. 24. 26. 27. July 1. 4. 6. 8. 9. 11. 15. 16. 17. 18. 22. 26. 29. Aug 2. 13. 16. 23. Sep 2. 5. 9. 13. 16. 17. 18. 19. 20. 23. 24. 25. 30 Oct 4. 8. 11. 14. 17. 23. 30. Nov 5. 15. 18. 22. Dec 4. 5. 10. 11. 12. 13. 16. 18. 19. 20. 23. 24. 30. 1919. Jan 2. Total No. of visits 85.

Is the approved plan of main boiler forwarded herewith?

Dates of Examination of principal parts—Cylinders 27/7/18 Slides 22/7/18 Covers 13/7/18 Pistons 1/7/18 Rods 20/7/18 Connecting rods 12/7/18 Crank shaft 14/7/18 Thrust shaft 14/7/18 Tunnel shafts 24/7/18 Screw shaft 28/7/18 Propeller 28/7/18 Stern tube 14/7/18 Steam pipes tested 7/7/18 Engine and boiler seatings 14/7/18 Engines holding down bolts 28/7/18 Completion of pumping arrangements 7/7/18 Boilers fired 20/7/18 Engines tried under steam 20/7/18 Main boiler safety valves adjusted 20/7/18 Thickness of adjusting washers 15 32 22 23 64 2 52 52

Material of Crank shaft steel Identification Mark on Do. 6015 24/6/18 Material of Thrust shaft steel Identification Mark on Do. 6015 24/6/18 Material of Tunnel shafts iron Identification Marks on Do. 6015 5/2/18 Material of Screw shafts iron Identification Marks on Do. 6015 28/7/18 Material of Steam Pipes lap welded steel Test pressure 540 lbs

Is an installation fitted for burning oil fuel? no

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? standard C If so, state name of vessel. — Empress Ruby built 50 tons

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of the vessel has been built under supervision, the material & workmanship sound & good.

The watertube boilers have been erected on ground & secured & tested by hydraulic pressure to 360 lbs per sq. in. the steam pipes have been tested by hydraulic pressure to 540 lbs.

The whole of the machinery worked satisfactorily at the surveys & the safety valves have been adjusted under steam to their working pressure & running gear fitted.

All the boiler mountings were tested to 360 lbs together with the boiler.

The whole of the machinery worked satisfactorily.

The vessel is eligible in my opinion to have the notation.

* LMC 1/19 fitted out with tubular boiler 180 lbs F.D.

It is submitted that this vessel is eligible for THE RECORD. + LMC 1/19. F.D.

The amount of Entry Fee ... £ Special 51. 14. 3 Donkey Boiler Fee 17. 4. 9 Travelling Expenses (if any) £ 29. 1. 19

Committee's Minute FRI. 17 JAN. 1919

Assigned + LMC 1. 19 subject. F.D.

Note