

REPORT ON MACHINERY.

No. 10380

Received at London Office

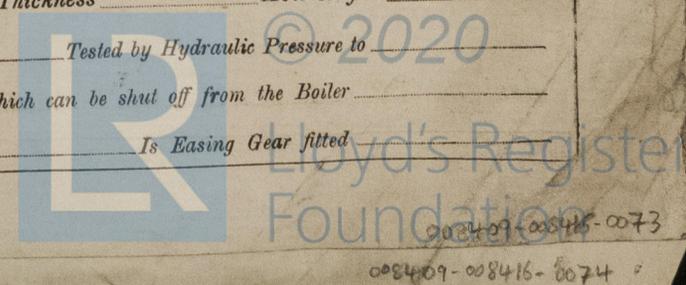
23. 1919

Date of writing Report 19 When handed in at Local Office 21/5/19 Port of Middlesbrough
 No. in Survey held at Stockton on Tees Date, First Survey 8th Aug/18 Last Survey 14th May 1919
 Reg. Book. on the S.S. PEEBLES ex War Petunia (S.S. N^o 675) Tons { Gross 5260.31
 Net 3217.64
 Master J.G. Potts Built at Stockton By whom built Richardson Duck & Co When built 1919
 Engines made at Stockton By whom made Messrs Blair & Co Ltd (N^o 1899) when made 1919
 Boilers made at Newcastle By whom made Walker & Co (312-B) when made 1918
 Registered Horse Power _____ Owners Sutherland Steamship Co Port belonging to Newcastle
 Nom. Horse Power as per Section 28 455 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Tri-compound No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 27-44-73 Length of Stroke 48 Revs. per minute 77 Dia. of Screw shaft 14.7 Material of screw shaft ing steel
 as fitted 15.5
 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
 in the propeller boss yes If the liner is in more than one length are the joints burned in one If the liner does not fit tightly at the part
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive tight fit If two
 liners are fitted, is the shaft lapped or protected between the liners _____ Length of stern bush 5-1 1/2
 Dia. of Tunnel shaft 13.33 Dia. of Crank shaft journals 14.0 Dia. of Crank pin 14.5 Size of Crank webs 28x9 Dia. of thrust shaft under
 collars 14 3/4 Dia. of screw 17-6 Pitch of Screw 16-6 No. of Blades 4 State whether moveable no Total surface 98.2
 No. of Feed pumps 2 Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work yes
 No. of Donkey Engines 3 Sizes of Pumps Ballast 10 1/2 x 14 x 24 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 4 @ 3 1/2 In Holds, &c. 2 @ 3 1/2 each hold except aftermost
 where one @ 3 1/2: Tunnel well one @ 3"
 No. of Bilge Injections 1 sizes 13 Connected to condenser, & circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes - 3 1/2
 Are all 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 none
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both
 Are 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 main below
 Are they 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
 What pipes are carried through the bunkers suctions to forward holds How are they protected wood ceiling
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes
 Is the Screw Shaft Tunnel watertight see hull rpt Is it fitted with a watertight door yes worked from top platform

BOILERS, &c.—(Letter for record (S)) Manufacturers of Steel J. Spencer & Sons & Schultzy & Co
 Total Heating Surface of Boilers 6204 Is Forced Draft fitted yes No. and Description of Boilers 2 Single ended
 Working Pressure 185 Tested by hydraulic pressure to 360 Date of test 25.10.18 No. of Certificate 9173
 Can each boiler be worked separately yes Area of fire grate in each boiler 76 1/2 No. and Description of Safety Valves to
 each boiler 2 direct spring Area of each valve 11 sq Pressure to which they are adjusted 185 Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 2-10 Mean dia. of boilers 16-6 Length 11-6 Material of shell plates steel
 Thickness 1 1/2 Range of tensile strength 29 1/2 - 33 1/2 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams 8-lap
 long. seams DBS-J. Riv Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 10 1/4 Lap of plates or width of butt straps 22 1/2
 Per centages of strength of longitudinal joint rivets 87.3 Working pressure of shell by rules 214 lb Size of manhole in shell 16 x 12
 plate 85.36
 Size of compensating ring no No. and Description of Furnaces in each boiler 4-Horison Material Steel Outside diameter 45 1/2
 Length of plain part top 19 Thickness of plates bottom 32 Description of longitudinal joint Welded No. of strengthening rings _____
 Working pressure of furnace by the rules 209 Combustion chamber plates: Material Steel Thickness: Sides 1/2 Back 21/32 Top 1/2 Bottom 13/32
 Pitch of stays to ditto: Sides 9 1/2 x 7 1/2 Back 8 1/2 x 8 1/2 Top 9 1/2 x 8 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 212 lb
 Material of stays Steel Area at smallest part 2.03 Area supported by each stay 77 sq Working pressure by rules 237 lb End plates in steam space:
 Material Steel Thickness 1 1/2 Pitch of stays 20 1/2 x 18 1/2 How are stays secured X-R Working pressure by rules 214 Material of stays steel
 Area at smallest part 7.07 sq Area supported by each stay 346 sq Working pressure by rules 211 lb Material of Front plates at bottom Steel
 Thickness 1 1/2 Material of Lower back plate Steel Thickness 31/32 Greatest pitch of stays 14 1/2 Working pressure of plate by rules 230
 Diameter of tubes 2 1/2 Pitch of tubes 3 1/4 x 3 1/2 Material of tube plates Steel Thickness: Front 1 Back 25/32 Mean pitch of stays 7 1/2
 Pitch across wide water spaces 14 Working pressures by rules 209 Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 8 1/2 x 1 1/2 Length as per rule 29 1/8 Distance apart 8 1/2 Number and pitch of stays in each 2 @ 9 1/2
 Working pressure by rules 207 Steam dome: description of joint to shell none % of strength of joint _____
 Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
 Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ 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 each of con. and top-end, bottom-end and main bearing bolts and nuts: 3 crank shaft & 3 tunnel shaft coupling bolts and nuts: one set each of feed and bilge pump valves. 3 each of main and donkey chuck valves: one set each of HP & M ram bottom piston rings: assorted bolts and nuts: iron of various sizes, one cast iron propeller and minor gear all as per specification*

The foregoing is a correct description,
For BLAIR & Co., LIMITED

Geo Wattishup

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1918 Aug 1. 9. Sep 11. 16. 19. 24. Oct 1. 5. 9. 11. 14. 16. 18. 23. 25. 28. 30. Nov 1. 4. 6. 8. 11. 14. 18. 19. 20. 22. 27. 31. Dec 2. 3. 4. 5. 6. 9. 11. 1919 Jan 17. 20. Mar 3. 5. 10. 11. 21. 24. 27. Apr 1. 2. 3. 10. 11. 14. 15. 24. 29. May 2. 7. 12. 14. Total No. of visits *59.*

Is the approved plan of main boiler forwarded herewith *no*
(sent with report No. 10319 on War Pansy)
" " " donkey " " " *yes*

Dates of Examination of principal parts—Cylinders *28.10.18* Slides *21.10.18* Covers *25.10.18* Pistons *21.10.18* Rods *25.10.18*
Connecting rods *25.10.18* Crank shaft *6.11.18* Thrust shaft *21.10.18* Tunnel shafts *18.11.18 to 18.11.18* Screw shaft *5.3.19* Propeller *5.3.19*
Stern tube *24.3.19* Steam pipes tested *4.24.10.18* Engine and boiler seatings *27.3.19* Engines holding down bolts *14.4.19*
Completion of pumping arrangements *12.5.19* Boilers fixed *29.4.19* Engines tried under steam *29.4.19*
Completion of fitting sea connections *27.3.19* Stern tube *27.3.19* Screw shaft and propeller *2.4.19*
Main boiler safety valves adjusted *29.4.19* Thickness of adjusting washers *P. Bbr P-13/32 S-13/32; S. Bbr P-3/2 S-15/32 B*
Material of Crank shaft *By Steel* Identification Mark on Do. *7158* Material of Thrust shaft *By Steel* Identification Mark on Do. *7158*
Material of Tunnel shafts *By Steel* Identification Marks on Do. *7158* Material of Screw shafts *By Steel* Identification Marks on Do. *7158*
Material of Steam Pipes *Lap welded steel* Test pressure *540 lb*

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 *yes* If so, state name of vessel *"War Pansy" No. 10319.*

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 Rules and the specification. The materials and workmanship are sound and good. On completion the engines, Boilers and auxiliaries were examined under steam and found satisfactory*

The machinery is now in a good and safe working condition and renders the vessel eligible in my opinion to have the notation of L.M.C. 5.19 in the Register Book.

Note:— *The vessel is fitted with Electric Light and Wireless*

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 5.19 F. D.

Admiralty fees *2/6*
Dues Indt £ *24-0-0* } 28/5/19
" " £ *9-0-0* } 28/5/19

The amount of Entry Fee ... £ *3-0-0* When applied for,
Special *2/3* £ *28-10-0* 19/5/19 1919
Donkey Boiler Fee ... £ *14-5-0*
Travelling Expenses (if any) £ *-* When received, *DMK* 21/5/19

Wm Morrison
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 27. MAY. 1919
Assigned + L.M.C. 5.19 F.D.



© 2020 Lloyd's Register Foundation