

REPORT ON MACHINERY.

No. 26575

Date of writing Report 29-11-1915 When handed in at Local Office 29-11-1915 Port of Sunderland Received at London Office TUE. NOV. 30. 1915

No. in Survey held at Sunderland Reg. Book. Date, First Survey 9th Feb 1915 Last Survey 27-11-1915 (Number of Visits 59)

Support on the new steel S/S "SNEATON"

Master J. Thornton Built at Sunderland By whom built W. Pickersgill & Sons Ltd (1915) Tons Gross 3470 Net 2108

Engines made at Sunderland By whom made George Black Ltd (No. 1028) when made 1915

Boilers made at Sunderland By whom made George Black Ltd (No. 1028) when made 1915

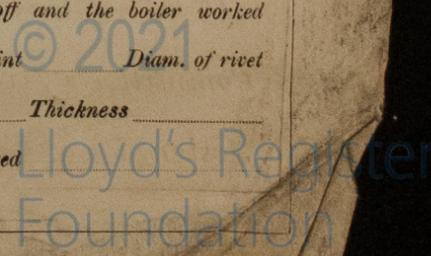
Registered Horse Power Owners Ireland & Harwood's SS 62 Ltd (Headlam & Rowland) Port belonging to Whitley

Nom. Horse Power as per Section 28 331 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 25" 41" 68" Length of Stroke 45" Revs. per minute 65 Dia. of Screw shaft as per rule 13.97" Material of screw shaft as fitted 14 1/2" steel
 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 yes 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 yes If two liners are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 4-10"
 Dia. of Tunnel shaft as per rule 12.41" Dia. of Crank shaft journals as per rule 13.02" Dia. of Crank pin 13 1/4" Size of Crank webs 19 1/2" x 8 1/4" Dia. of thrust shaft under collars 13 3/8" Dia. of screw 14-1/2" Pitch of Screw 14-0" No. of Blades 4 State whether moveable no Total surface 89 sq ft
 No. of Feed pumps 2 Diameter of ditto 3 1/4" Stroke 26" Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 4 1/4" Stroke 26" Can one be overhauled while the other is at work yes
 No. of Donkey Engines 4 Sizes of Pumps BALLAST FEED 10" x 10" GENERAL FEED 8 1/2" x 6" 8 1/2" x 8" 3 1/2" x 4" No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room 4 @ 3 1/2" In Holds, &c. No. 1 hold, - 2 @ 3 1/2" No. 2 hold, - 2 @ 3 1/2"
 No. of Bilge Injections 1 sizes 6" Connected to condenser, or to circulating pump L.P. Is a separate Donkey Suction fitted in Engine room & size yes 4 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 above
 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 forward hold suction How are they protected under timber boards
 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
 Dates of examination of completion of fitting of Sea Connections 9-9-15 of Stern Tube 9-9-15 Screw shaft and Propeller 12-10-15
 Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Top platform

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel David Colville & Sons Ltd
 Total Heating Surface of Boilers 5031 sq ft Is Forced Draft fitted no No. and Description of Boilers three single ended marine
 Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 14-9-15 No. of Certificate 3311
 Can each boiler be worked separately yes Area of fire grate in each boiler 53 sq ft No. and Description of Safety Valves to each boiler two direct spring Area of each valve 7.67 sq ft Pressure to which they are adjusted 185 Are they fitted with easing gear yes
 Smallest distance between boiler uptakes and bunkers on woodwork 2-0" Mean dia. of boiler 42-10 1/2" Length 10-6 Material of shell plates steel
 Thickness 1 1/8" Range of tensile strength 29 1/2 - 33 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR long. seams DBS, TR. Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 7 1/8" Lap of plates or width of butt straps 17 1/8"
 Per centages of strength of longitudinal joint rivets 88.2 Working pressure of shell by rules 181 Size of manhole in shell 12 x 16
 Size of compensating ring 8 x 1 1/8" No. and Description of Furnaces in each boiler 3 plain Material steel Outside diameter 3-5 1/4"
 Length of plain part top 6-3 3/4" bottom 6-0" Thickness of plates crown 3/4" bottom 3/4" Description of longitudinal joint welded No. of strengthening rings none
 Working pressure of furnace by the rules 181 Combustion chamber plates: Material steel Thickness: Sides 1 1/8" Back 1 1/8" Top 1 1/8" Bottom 1 1/16"
 Pitch of stays to ditto: Sides 9 x 10" Back 9 1/2 x 9 1/2" Top 8 3/4 x 10 1/2" If stays are fitted with nuts or riveted heads nuts in cas Working pressure by rules 180
 Material of stays steel Diameter at smallest part 2-0 3/8" Area supported by each stay 900" Working pressure by rules 203 End plates in steam space: Material steel Thickness 1 3/32" Pitch of stays 21 x 18 1/2" How are stays secured D.N Working pressure by rules 187 Material of stays steel
 Diameter at smallest part 5 9/16" Area supported by each stay 322 1/2 x 369" Working pressure by rules 183 1/2 Material of Front plates at bottom steel
 Thickness 1 3/16" Material of Lower back plate steel Thickness 1 1/8" Greatest pitch of stays 9 3/8" x 16 1/8" Working pressure of plate by rules 186
 Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" x 4 3/8" Material of tube plates steel Thickness: Front 1 3/16" Back 3/4" Mean pitch of stays 11 1/8"
 Pitch across wide water spaces 14 1/4" x 13 1/2" Working pressures by rules 262 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 20 8 1/8" x 7 1/8" Length as per rule 2-6 1/2" Distance apart 10 1/2" Number and pitch of stays in each 2 @ 8 3/8"
 Working pressure by rules 182 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes 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

W753-0158



IS A DONKEY BOILER FITTED? no

If so, is a report now forwarded? —

SPARE GEAR. State the articles supplied:— Two connecting rod top and bottom end bolts and nuts, two main bearing bolts, one set of coupling bolts, one set of feed, bilge, air and circulating pump valves iron and bolts of various sizes, two main eccentric bolts one propeller and one screw shaft.

The foregoing is a correct description,
FOR GEORGE CLARK, LIMITED

W. S. Bruce

Manufacturer. 2 Main Engines & Boilers

Dates of Survey while building { During progress of work in shops -- } 1915. Feb. 9. 11. 26 Mar. 8. 11. 16. 17. 29. 31 Apr. 15. 16. 22. 27. 28. 30 May 5. 7. 10. 12. 20. 28. 31
{ During erection on board vessel -- } Jun. 3. 7. 14. 16. 17. 19. 21. Jul. 2. 8. 13. 24. Aug. 4. 10. 13. 19. 25. 26. Sep. 6. 7. 9. 14. Oct. 4. 6. 8. 11. 12. 20. 25.
{ Total No. of visits } Nov. 5. 8. 10. 11. 18. 19. 22. 26. 27.
59.

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

Dates of Examination of principal parts—Cylinders 20-5-15 Slides 4-8-15 Covers 27-4-15 Pistons 5-5-15 Rods 4-8-15
Connecting rods 21-10-15 Crank shaft 16-6-15 Thrust shaft 20-10-15 Tunnel shafts 13-8-15 Screw shaft 8-10-15 Propeller 14-6-15
Stern tube 26-8-15 Steam pipes tested 19 & 23-11-15 Engine and boiler seatings 7-9-15 Engines holding down bolts 18-11-15
Completion of pumping arrangements 26-11-15 Boilers fixed 8-11-15 Engines tried under steam 26-11-15
Main boiler safety valves adjusted 27-11-15 Thickness of adjusting washers Four 1/16" 5 3/8" bent 1/16" 5 3/8" slanted 1/16" 3 3/8" 5 1/16"
Material of Crank shaft I. Steel Identification Mark on Do. 20200 MR Material of Thrust shaft I. Steel Identification Mark on Do. 20200 MR
Material of Tunnel shafts Scrap Iron Identification Marks on Do. 7186 BSW Material of Screw shafts Scrap Iron Identification Marks on Do. 6945 BSW
Material of Steam Pipes Repurified wrought iron 7 @ 5 1/2" od x 5/16" ✓ Test pressure 540 lbs per sq" ✓
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 no ✓ If so, state name of vessel ✓

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

The materials and workmanship are good.
The machinery has been constructed under special survey and is eligible in my opinion for classification and the record + LMC 11.15

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 11.15.

J.W.D.
1/10/15

J.P.S.

The amount of Entry Fee ... £ 3 : - :
Special ... £ 36 : 11 :
Donkey Boiler Fee ... £ - : - :
Travelling Expenses (if any) £ - : - :
When applied for, 29 NOV 1915
When received, 4/12 1915

J. W. Davis
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute FRI. - 3 DEC. 1915

Assigned + 27th 11.15



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SUNDERLAND.

Certificate (if required) to be sent to.

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