

REPORT ON MACHINERY.

No. 9274

Survey Report

When handed in at Local Office

23/3/16

Received at London 27 MAR. 1916

Survey held at Middlesbrough
on the S.S. "Abadesa"

Port of Middlesbrough
Date, First Survey April 8 1914 Last Survey March 11 1916

(Number of Vessels)

Built at Middlesbrough By whom built Sir R. Dixon & Co.

Gross Tons

Net Tons

When built 1916

made at Middlesbrough By whom made Richardson, Bergach & Co. Ltd (N:2232) when made 1916

made at do By whom made do (N:2240) when made 1916

ed Horse Power 682 Owners Furness Koulder Argentine Lines Port belonging to Liverpool

ase Power as per Section 28 682 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes

ES, &c. — Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

29" cu wire, Hull 27/3/16 Cylinders 24, 49, 80 Length of Stroke 54 Revs. per minute 72 Dia. of Screw shaft 15.97 Material of Iron

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

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

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

fitted, is the shaft lapped or protected between the liners yes Length of stern bush 5'-6 1/2"

unnel shaft 14.65 Dia. of Crank shaft journals 15.38 Dia. of Crank pin 16 1/4 Size of Crank webs 24 1/2 x 10 1/2 Dia. of thrust shaft under

6 7/8 Dia. of screw 18'-9" Pitch of Screw 19'-0" No. of Blades 4 State whether moveable No Total surface 113.9 sq ft

ed pumps 2 Diameter of ditto 9" Stroke 21" Can one be overhauled while the other is at work yes

ge pumps 2 Diameter of ditto 4" Stroke 30" Can one be overhauled while the other is at work yes

Monkey Engines Three Sizes of Pumps 9x11x10, 7x7x8, 8x6x8 No. and size of Suctions connected to both Bilge and Donkey pumps

Room Two 3 1/2" In Stokehold Two 3 1/2" In Holds, &c. Two 3 1/2" in each hold.

Injection 1 sizes 9 1/2" Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes 3 1/2"

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

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

ed 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

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

are carried through the bunkers Forward hold suction How are they protected Wood ceiling

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

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

mination of completion of fitting of Sea Connections 14.3.16 of Stern Tube 14.3.16 Screw shaft and Propeller 14.3.16

Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Top grating

&c. — (Letter for record 15) Manufacturers of Steel John Spencer Sons Ltd

ing Surface of Boilers 10300 sq ft Forced Draft fitted yes No. and Description of Boilers Three S.E. cyl. Mult.

pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 26.1.15 No. of Certificate 5447

iler be worked separately yes Area of fire grate in each boiler 77.9 sq ft No. and Description of Safety Valves to

two direct spring Area of each valve 15.9 Pressure to which they are adjusted 183 lbs Are they fitted with easing gear yes

ance between boilers or uptakes and bunkers or woodwork 16" Mean dia. of boilers 17'-6" Length 12'-0" Material of shell plates Steel

176 Range of tensile strength 28 3/4 - 32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams RA, lap

176 Diameter of rivet holes in long. seams 1 7/8" Pitch of rivets 10 1/4" Lap of plates or width of butt straps 22 3/4"

of strength of longitudinal joint 88.8 Working pressure of shell by rules 210 lbs Size of manhole in shell 16 1/2 x 13"

insating ring 33 3/4 x 30 1/2 x 1 1/2 No. and Description of Furnaces in each boiler 4 Morrison Material Steel Outside diameter 3'-10 1/2"

ain part top Thickness of plates 5" Description of longitudinal joint Welded No. of strengthening rings yes

asure of furnace by the rules 217 Combustion chamber plates: Material Steel Thickness: Sides 5" Back 5" Top 5" Bottom 3"

s to ditto: Sides 8 1/4 x 7 3/4 Back 8 1/4 x 7 3/4 Top 8 1/4 x 7 3/4 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 210 lbs

stays Steel Diameter at smallest part 1.48" Area supported by each stay 64" Working pressure by rules 185 End plates in steam space

Thickness 1 3/8" Pitch of stays 20 x 17 1/2" How are stays secured Nuts Working pressure by rules 220 Material of stays Steel

smallest part 8.25" Area supported by each stay 327.5" Working pressure by rules 246 Material of Front plates at bottom Steel

Material of Lower back plate Steel Thickness 1 3/8" Greatest pitch of stays 13 x 8 1/4" Working pressure of plate by rules 192

tubes 2 1/2" Pitch of tubes 3 3/4 x 3 3/4" Material of tube plates Steel Thickness: Front 31/32" Back 13/16" Mean pitch of stays 9 3/8"

wide water spaces 13 1/2" Working pressures by rules 185 lbs Girders to Chamber tops: Material Steel Depth and

girders at centre 8 1/4 x 1 3/4" Length as per rule 2'-9" Distance apart 8 5/8" Number and pitch of stays in each 307"

pressure by rules 193 lbs Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked

ately yes Diameter yes Length yes Thickness of shell plates yes Material yes Description of longitudinal joint yes Diam. of rivet

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

offened with rings yes Distance between rings yes Working pressure by rules yes End plates: Thickness yes How stayed yes

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

FROM

W30-0114

Lloyd's Register Foundation

IS A DONKEY BOILER FITTED? No

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied:— Two top & two bottom and connecting rod bolts & nuts. Two main bearing bolts & nuts. One set of coupling bolts & nuts. One set of feed & bilge pump valves. One propeller. One propeller shaft. Main & donkey feed check valves. Assorted bolts & nuts etc.

The foregoing is a correct description,

and on behalf of

RICHARDSON, WESTGARTH & Co., Ltd.

E. Hall-Brown.

Manufacturer.

Dates of Survey while building	During progress of work in shops - -	1914 Apr. 2-16-20-21-23-27-30 May 7-13-16-21-23-27-28-29 June 5-10-11-19-22-26-30 July 6-7-9-14-18-21-31 Aug. 7-12-23-27 Sep. 1-2-8-11-15-18-22-24-29 Oct. 3-6-8-12-14-29 Nov. 1-6
	During erection on board vessel - - -	1911-13-18-23-27-30 Dec. 1-14-16-22-31 1915 Jan. 7-17-18-25 Feb. 1-9-17-24 Mar. 4-11-13-23-26-29-30 Apr. 1-7-12-27 Aug. 9 Sep. 5-14-17-21 Oct. 1-14-18-21 Nov. 3-5-11-16-22 Dec. 1-11-13-21-29-31 Jan. 4-7
	Total No. of visits	21 Feb. 3-11 Mar. 2-7-11-13-14-17

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Is the approved plan of main boiler forwarded herewith yes

Is the approved plan of main boiler forwarded herewith Yes

" " " *donkey* " " ✓

Dates of Examination of principal parts—Cylinders 31.7.14 Slides 12.8.14 Covers 11.9.14 Pistons 12.8.14 Rods 8.9.14
 Connecting rods 25.8.14 Crank shaft 15.7.14 Thrust shaft 1.4.15 Tunnel shafts 18.10.15 Screw shaft 6.7.15 Propeller 14.9.15

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Stern tube 14.9.15 Steam pipes tested 17.10.14 ^{See KLF} Engine and boiler seatings 14.9.15 Engines holding down bolts 1.12.15

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Completion of pumping arrangements 31. 12. 15 Boilers fixed 1. 12. 15 Engines tried under steam 31. 12. 15

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Main boiler safety valves adjusted 31.12.15 Thickness of adjusting washers $FB \frac{15}{32} AV \frac{7}{16} PB \frac{7}{16} SV \frac{13}{32} SB \frac{29}{64} PV \frac{17}{32}$

Main boiler safety valves adjusted 31.12.15 Thickness of adjusting washers FB AV $\frac{32}{32}$ FV $\frac{76}{76}$ PB PV $\frac{76}{76}$ SV $\frac{32}{32}$ DB PV $\frac{64}{64}$ SV $\frac{32}{32}$

Material of Crank shaft Steel Identification Mark on Do. 5582AF Material of Thrust shaft Steel Identification Mark on Do 7450AF.

Material of Crank shaft Steel Identification Mark on Do. 5582AB Material of Thrust shaft Steel Identification Mark on Do. 7450AF
Material of Tunnel shafts Iron Identification Marks on Do. 7002JK Material of Screw shafts Iron Identification Marks on Do. 2232JT

Material of Tunnel shafts Iron Identification Marks on Do. 7002JK Material of Screw shafts Iron Identification Marks on Do. 2232J7
Material of Steam Pipes Lap welded Wrought Iron ✓ Test pressure 540 lbs ✓

Material of Steam Pipes Lap welded wrought iron ✓ Test pressure 540 lbs ✓
Is installation fitted for burning oil fuel? No ✓ Is the flash point of the oil to be used over 150° F. ✓

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 Engines and Boilers of this vessel have been constructed under Special Survey, are of good material and workmanship, and have been fitted and secured on board in accordance with the Rules. They are now in good working condition and in my opinion eligible to have the notation of +LMC 3, 16 in the Register Book.

It is submitted that
this vessel is eligible for

THE RECORD + LMC 3.16. F.D.

The amount of Entry Fee	...	£	3	:	0	:	When applied for,
Special	...	£	54	:	2	:	23/3/1916
Donkey Boiler Fee	...	£	:	:	:	:	When received,
Travelling Expenses (if any)	£	:	:	:	:	:	11/4/1916

When applied for,

23/2/1916

When received,

11/4/1916

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

Committee's Minute TUE. MAR. 28, 1916

Assigned

+ LMC 3.16 F. D.

**MACHINERY CERTIFICATE
WRITTEN.**

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