

REPORT ON MACHINERY.

No. 29716

Received at London Office FRI. 29 DEC. 1916

Writing Report 22-12-16 When handed in at Local Office 22-12-16 Port of Hull

Survey held at Hull Date, First Survey 11-6-15 Last Survey 22-12-16 1916
 on the Steel Twin screw steamer "Condessa" (Number of Visits 181)

Owner W.R. Coleman Built at Hull By whom built Earle's & Co. Ltd
 Tons Gross 8557 Net 5416
 When built 1916-12

Machinery made at Hull By whom made Earle's & Co. Ltd
 Engines made at Hull By whom made Earle's & Co. Ltd
 when made 1916-12
 when made 1916-12

Indicated Horse Power Owners Furness Houlder Argentine Line Ltd Port belonging to

Horse Power as per Section 28 1095 Is Refrigerating Machinery fitted for cargo purposes yes Is Electric Light fitted yes

INES, & Co. — Description of Engines Twin Triple Expansion No. of Cylinders 4 No. of Cranks 6
 of Cylinders 25" - 41 1/2" - 70" Length of Stroke 48" Revs. per minute Dia. of Screw shaft as per rule 14 3/8" Material of screw shaft as fitted 14 3/4" Material of propeller boss yes If the liner is in more than one length are the joints burned yes Is the after end of the liner made water tight 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 If two are fitted, is the shaft lapped or protected between the liners Length of stern bush 73 3/4"

of Tunnel shaft as per rule 13 21" 13 19" Dia. of Crank shaft journals as per rule 13 87" Dia. of Crank pin 14 9/8" Size of Crank webs 23" x 9" Dia. of thrust shaft under as fitted 13 1/4" as fitted 14 1/8"

s 14 1/8" Dia. of screw 16-9" Pitch of Screw 18-6" No. of Blades 4 State whether moveable yes Total surface 86 1/2"

of Feed pumps Two Weirs Diameter of ditto 11 1/2" Stroke 24" Can one be overhauled while the other is at work yes
 Bilge pumps Two Diameter of ditto 5 1/2" Stroke 27" Can one be overhauled while the other is at work yes
 Donkey Engines Five Sizes of Pumps see other side No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room Three 3 1/2", Two 3 1/2" in stokehold & Two 3 1/2" in tunnel Holds, &c. Two 3 1/2" in end compartment

Bilge Injections Two sizes 11" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size yes 4 1/2" 7"

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

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 below

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

pipes are carried through the bunkers Forward suction Bunkers How are they protected Strong casings covered gal iron

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

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

of examination of completion of fitting of Sea Connections 11-7-16 of Stern Tube 27-28-6-16 Screw shaft and Propeller 8-12-16

Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from upper platform

ERS, & Co. — (Letter for record S) Manufacturers of Steel D. Colville & Sons & John Pancer & Sons

Heating Surface of Boilers 16800 Is Forced Draft fitted yes No. and Description of Boilers Five single ended

ing Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 12, 19, 27-7, 10, 16-8-1916 No. of Certificate 3148, 3149, 3152, 3155, 3157

each boiler be worked separately yes Area of fire grate in each boiler 78 8/8" No. and Description of Safety Valves to boiler Two spring loaded Area of each valve 9 6/8" Pressure to which they are adjusted 200 Are they fitted with easing gear yes

st distance between boilers or uptakes and bunkers or woodwork Int Mean dia. of boilers 210" Length 12'-0" Material of shell plates steel

ess 19/16 Range of tensile strength 3195-3560 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double

seams Y.P.P.B.T. Diameter of rivet holes in long. seams 1 5/8" Pitch of rivets 10 1/2" Lap of plates or width of butt straps 23 1/2"

ntages of strength of longitudinal joint rivets 94 plate 84 5/2 Working pressure of shell by rules 232 Size of manhole in shell 16" x 12"

compensating ring 11 1/2" x 1 5/8" No. and Description of Furnaces in each boiler Four Brighton Material steel Outside diameter 47 1/2"

of plain part top Thickness of plates crown 3 21/32 Description of longitudinal joint welded No. of strengthening rings patent

ing pressure of furnace by the rules 226 Combustion chamber plates: Material steel Thickness: Sides 11/16" Back 11/16" Top 2 3/32" Bottom 1"

of stays to ditto: Sides 9' x 8 5/8" Back 9 1/2' x 8" Top 10' x 8 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 209

al of stays steel Diameter at smallest part 2 1/4" Area supported by each stay 98" Working pressure by rules 226 End plates in steam space

al steel Thickness 1 1/32" Pitch of stays 21' x 18" How are stays secured R. H. Working pressure by rules 212 Material of stays steel

low at smallest part 8 48" Area supported by each stay 378" Working pressure by rules 233 Material of Front plates at bottom steel

ess 1 1/32" Material of Lower back plate steel Thickness 29/32 Greatest pitch of stays 14 1/2" x 8 1/2" Working pressure of plate by rules 204

er of tubes 2 3/4" Pitch of tubes 4" x 4 1/2" Material of tube plates steel Thickness: Front 1 1/32" Back 7/8" Mean pitch of stays 10 1/2"

across wide water spaces 14" Working pressures by rules 208 Girders to Chamber tops: Material steel Depth and

es of girder at centre 10 1/2" x 1 3/4" Length as per rule 34" Distance apart 10" Number and pitch of stays in each Three 8 1/2"

ing pressure by rules 208 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

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

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

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

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

No

If so, is a report now forwarded?

State the articles supplied :

The foregoing is a correct description,

BUILDING & ENGINEERING CO. LIMITED.

Manufacturer.

<i>Dates of Survey while building</i>	<i>During progress of work in shops - -</i>
	<i>During erection on board vessel - - -</i>
	<i>Total No. of visits</i>

1915: - ~~Not of rank~~: 1915: - Jun 2 July 5 Aug 10. Sep 12 Oct 7 Nov 8 Dec 7 - 1916: -
Feb 8 Mar 6 Apr 8 May 12 Jun 9 July 9 Aug 13. Sept 6 Oct 18. Nov 14. Dec 12.

Is the approved plan of main boiler forwarded herewith. Yes

Dates of Examination of principal parts—Cylinders 15-6-16 Slides 14-8-16 Covers 15-5-16 Pistons 2-5-16 Rods 31-5-16
P 29-5-16 P 37-16 P 37-16

Connecting rods 30-5-16 Crank shaft 19-5-16 Thrust shaft 31-7-16 Tunnel shafts 7-7-16 Screw shaft 1-8-16
P 6-6-16
Stern tube 8-6-16 Steam pipes tested 20-9-12 43-10-16 Engine and boiler seatings 2-8-16 Engines holding down bolts 17-10-16

Completion of pumping arrangements 21-12-16 Boilers fixed 26-10-16 Engines tried under steam 10-12-16 #3.8
Main boiler safety valves adjusted 11-12-16 Thickness of adjusting washers A. 1 5 3/16 P 7/8; A. 6, 5 3/16 P 7/8; A. P. 5 3/16 P 1 1/2; 7 P. 5 3/16
P 5197 AB P 61149

Material of Crank shaft steel Identification Mark on Do. S5697 AB Material of Thrust shaft steel Identification Mark on Do. S 1715 FC
Material of Tunnel shafts steel Identification Marks on Do. see below Material of Screw shafts steel Identification Marks on Do. P 611 B.M
S 611 S.M

Material of Steam Pipes Lap welded iron & solid drawn steel ✓ Test pressure 100 ✓
Is the 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.)

Particulars of donkey pumps. Two ballast 10" 10" x 10" duplex; one General service 9 1/2, 6 1/2 x 10" duplex; one harbour feed pump (Heir) 12, 9" x 24" one Fresh water 5, 5" x 5" dup. there are also two refrigerators circulating pumps. 8, 10" x 10" duplex.

Mark on Tunnel shafts. Port - 1726 FLS 611 21-6-16 JLG 6 7-9-16 LGS; 611 30-6-16 JLG 6 7-9-16 LGS; 611 30-6-16 JLG 6 7-9-16 LGS; 611 30-6-16 JLG 6 7-9-16 LGS; 611 30-6-16 JLG 6 7-9-16 LGS; 611 30-6-16 JLG 6 7-9-16 LGS. Starboard 1716 FLS 611 21-6-16 JLG 6 1716 FLS 611 21-6-16 JLG 6 1716 FLS 611 21-6-16 JLG 6; 1716 FLS 611 21-6-16 JLG 6; 1716 FLS 611 31-6-16 JLG 6.

The machinery of this vessel has been constructed under special survey in accordance with the approved plans & the rules of this Society. The materials & workmanship are good. The Boiler & steam pipes have been tested as above & found sound & good. The machinery has been properly fitted & viewed on board the vessel & on completion tested under steam at the motion found to work satisfactorily. The evaporator safety valves adjusted to 15 lbs. The main boiler safety valves have been adjusted under steam & tested for accumulation which did not exceed 210 lbs. In my opinion the vessel is eligible for the record & L. N. 6. 12, 16 F.D. to be noted.

are required not to write

The amount of Entry Fee ... £ 3 : 0 :	When applied for, 28/12/1916	<div>THE RECORD & LIME CO. LTD.</div> <div>Frank L. Sturgeon F.D. J.W.</div> <div>Engineer Surveyor to Lloyd's Register of British & Foreign Shipping</div> <div>4/1/17</div>
Special ... £ 72 : 7/6		
Donkey Boiler Fee ... £ ✓ : ✓ :	When received, 12/1/1917	
Travelling Expenses (if any) £ ✓ : ✓ :		

Committee's Minute _____
Assigned _____



shall be glad
loss and Net
respectively and
received from

It is submitted that
this vessel is eligible for
THE RECORD + LMC 12.

THE RECORD & INDEX
F.D. J.W.
Frank L. Sturgeon
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping
4/1/12

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Lloyd's R
Foundat

The Registrar General
Tower House