

REPORT ON MACHINERY.

No. 9067
MON. SEP. 1-1913

Received at London Office

Writing Report 10 When handed in at Local Office 29/8/13 Port of Germshy

Survey held at Germshy Date, First Survey 6/12/12 Last Survey 28/7/13 19 13
 on the ss. Platian (Cochrane 160 N° 577) (Number of Visits 38)

er Built at Selly By whom built Cochrane & Sons Tons 1913
 nes made at Germshy By whom made St. Central Co. op. Eng. H.R. Co. when made 1913
 rs made at do. By whom made do. when made 1913

stered Horse Power 45 Owners St. Cent. Co. op. Eng. H.R. Co. Port belonging to Germshy
 Horse Power as per Section 28 45 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

INES, &c.—Description of Engines Triple expansion Inverted No. of Cylinders 3 No. of Cranks 3
 of Cylinders 12-21 1/2-34 Length of Stroke 24 Revs. per minute 112 Dia. of Screw shaft 7.05 as per rule 7.375 as fitted Material of Iron
 he 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
 he 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
 een the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes If two
 rs are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 35"
 u. of Tunnel shaft 6.3" as per rule 6.61 as fitted Dia. of Crank shaft journals 7.0 as fitted Dia. of Crank pin 7" Size of Crank webs 4 1/4 x 13 Dia. of thrust shaft under
 ars 7" Dia. of screw 8-6" Pitch of Screw 10'-9" No. of Blades 4 State whether moveable no Total surface 280'
 of Feed pumps 1 Diameter of ditto 2 1/8 Stroke 24 Can one be overhauled while the other is at work yes
 of Bilge pumps 1 Diameter of ditto 2 1/8 Stroke 24 Can one be overhauled while the other is at work yes
 of Donkey Engines 1 Sizes of Pumps 6 x 3 1/2 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room 2" sea hotwell bilge In Holds, &c. 2" forehold freshroom

o. of Bilge Injections 1 sizes 3 Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2 1/2" equal
 re 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
 re all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both
 re 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
 re 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 trick steam exhaust How are they protected wood casing
 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 17/6/13 of Stern Tube at hull Screw shaft and Propeller at hull

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

OILERS, &c.—(Letter for record S) Manufacturers of Steel Phoenix Abtly. Hoelder Vereini

Total Heating Surface of Boilers 1340 Is Forced Draft fitted no No. and Description of Boilers one SE return tube
 Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 23.7.13 No. of Certificate 116

Can each boiler be worked separately yes Area of fire grate in each boiler 35 No. and Description of Safety Valves to
 each boiler 2 direct drum Area of each valve 3.98 Pressure to which they are adjusted 180 lb Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers 8" Mean dia. of boilers 12-6 Length 10-0 Material of shell plates S
 Thickness 1 3/32 Range of tensile strength 28/32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double
 long. seams double Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 7 3/4 Lap of plates on width of butt straps 16 5/8
 Per centages of strength of longitudinal joint 87.0 Working pressure of shell by rules 194 Size of manhole in shell 12 x 16
 plate 85.5 No. and Description of Furnaces in each boiler 2 plain Material S Outside diameter 43
 Size of compensating ring 16 x 16 x 1 1/8 No. of strengthening rings none
 Length of plain part 3.70 Thickness of plates 3 3/4 Description of longitudinal joint welded No. of strengthening rings none
 Working pressure of furnace by the rules 181 Combustion chamber plates: Material S Thickness: Sides 3/32 Back 3/32 Top 2/32 Bottom 13/16
 Pitch of stays to ditto: Sides 9 1/4 x 8 3/4 Back 9 x 8 3/4 Top 9 1/4 x 8 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 184
 Material of stays S Area at smallest part 2.1 Area supported by each stay 81 Working pressure by rules 207 End plates in steam space:
 Material S Thickness 1 1/8 Pitch of stays 17 1/2 x 18 How are stays secured d. nuts + washers Working pressure by rules 190 Material of stays S
 Diameter at smallest part 6.6 Area supported by each stay 320 Working pressure by rules 215 Material of Front plates at bottom S
 Thickness 1 Material of Lower back plate S Thickness 15/16 Greatest pitch of stays 16 Working pressure of plate by rules 180
 Diameter of tubes 3 1/4 Pitch of tubes 4 1/2 Material of tube plates S Thickness: Front 1 Back 3/4 Mean pitch of stays 9
 Pitch across wide water spaces 14 1/4 Working pressures by rules 190 Girders to Chamber tops: Material S Depth and
 thickness of girder at centre 2 (9 x 3/4) Length as per rule 31.5 Distance apart 8 1/4 Number and pitch of stays in each 2-9 1/4
 Working pressure by rules 223 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 Working pressure by rules End plates: Thickness How stayed
 Are they fitted with easing gear

007276-007287-0293

VERTICAL DONKEY BOILER—

Manufacturers of Steel

REGISTER OF SHIPPING
RECEIVED
AUG. 1913

These p

Signal Let

Official

1347

No., Date, ar

Whether Bri

Foreign B

British

Number of I

Number of I

Rigged ...

Stern ...

Build ...

Galleries ...

Head ...

Framework

vessel ...

Number of I

Number of I

and their

Total to quarter t

to bottom of

No. of

sets of

Engines.

Des

One

No. of

Shafts.

One

Des

Num

Iron a

Load

Under Tonn

Space or spa

Turret or Tr

Forecastle...

Bridge space

Prop or Bre

Side Houses

Deck House

Chart House

Spaces for m

Section 78

1894

Excess of H

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Deductions,

Reg

NOTE 1.—The t

Dec

NOTE 2.—The

No. Description

Made at

By whom made

When made

Where fixed

Working pressure

tested by hydraulic pressure to

Date of test

No. of Certificate

Fire grate area

Description of Safety

Valves

No. of Safety Valves

Area of each

Pressure to which they are adjusted

Date of adjustment

If fitted with easing gear

If steam from main boilers can enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile strength

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

Lap of plating

Per centage of strength of joint

Rivets

Plates

Working pressure of shell by rules

Thickness of shell crown plates

Radius of do.

No. of stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

Thickness of furnace plates

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown plates

Radius of do.

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

Dates of survey

SPARE GEAR. State the articles supplied:— 2mo top and bottom end and main bearing bolts nuts, a set of coupling bolts nuts, feed, bilge circulating and air pump valves, safety escape valves, safety valve springs, assorted bolts, nuts turn

FOR THE SHIP CENTRAL CO-OPERATIVE
ENGINEERING & SHIP REPAIRING COMPANY, LTD.

The foregoing is a correct description,

Manufacturer.

Fred Lister

Dates of Survey while building
During progress of work in shops— 1912 Dec 6-20 Jan 2-10-18-23-31 Feb 13-20-25 Mar 3-6-12 Apr 14-21-25-29 May 3-6-13-18 June 3-20-27
During erection on board vessel— 1913 July 7-10-15-18-21
Total No. of visits 38

Is the approved plan of main boiler forwarded herewith

yes

Dates of Examination of principal parts—Cylinders HP 13-2-13 LP 31-7-13 Slides 13/5/13 Covers 18-1-13 Pistons 20/2 Rods 13/2/13

Connecting rods 13/2/13 Crank shaft 12/3/13 Thrust shaft 29/7/13 Tunnel shafts ✓ Screw shaft 4/11/10 Propeller 10/6/13

Stern tube 10/6/13 Steam pipes tested 11/8/13 Engine and boiler seatings at Hull. Engines holding down bolts 11/8/13

Completion of pumping arrangements 15/8/13 Boilers fixed 11/8/13 Engines tried under steam 28/8/13

Main boiler safety valves adjusted 14/8/13 Thickness of adjusting washers P3/8 57/16

Material of Crank shaft Iron Identification Mark on Do. 622 29-7-13

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shaft Iron Identification Marks on Do. 4-11-10

Material of Steam Pipes Solid drawn copper - 6 sub. Test pressure 360 lb.

General Remarks (State quality of workmanship, opinions as to class, &c. This machinery has been

built under special survey and the materials and workmanship are good.

The boiler has been built in accordance with the approved plan of duly tested material.

The machinery has been fitted on board the vessel in an efficient manner, and is eligible in my opinion for record of LMC 8-13

This machinery is a duplicate of that fitted on the S. Jentouan
Gms. report N° 8854.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 8-13.

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

The amount of Entry Fee .. £ 1 : - : -
Special .. £ 11 : 5 : -
Donkey Boiler Fee .. £ : : -
Travelling Expenses (if any) £ : : -

When applied for,

30/8/13

When received,

5/12/13

Committee's Minute

FRI. SEP 5-1913

Assigned

LMC 8/13

MACHINERY CERTIFICATE
WRITTEN



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Foundation