

Received at London Office 2 JUN 1917

Date of writing Report

19

When handed in at Local Office

30-5-17 Port of

Hull

No. in Survey held at  
Reg. Book.

Hull

Date, First Survey

16. 11-16 Last Survey

21-5-1917

on the

Shel. Sc. H. "John Appleby"

(Number of Visits)

29

Tons Gross 306

Net 121

Master

Built at

Beverley

By whom built

Cook, Wilton &amp; Lummell

When built

1917

Engines made at

Hull

By whom made

Amos & Smith L<sup>td</sup> No. 2833

when made

1917

Boilers made at

Hull

By whom made

Amos & Smith L<sup>td</sup>

when made

1917

Registered Horse Power

Owners

British Admiralty

Port belonging to

✓

Nom. Horse Power as per Section 28

89

Is Refrigerating Machinery fitted for cargo purposes

✓

Is Electric Light fitted

no

## ENGINES, &amp;c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

13½ · 22½ · 37

Length of Stroke

24

Revs. per minute

Dia. of Screw shaft

as per rule 7.49

Material of

screw shaft

Iron

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

✓

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

✓

If two

liners are fitted, is the shaft lapped or protected between the liners

✓

Length of stern bush

3'0"

Dia. of Tunnel shaft

as per rule 6.75

Dia. of Crank shaft journals

as per rule 7.08

Dia. of Crank pin

7½

Size of Crank webs

4½ · 14½

Dia. of thrust shaft under

collars

collars

7½

Dia. of screw

9'0"

Pitch of Screw

11'0"

No. of Blades

4

State whether moveable

no

Total surface

29.5 sq

No. of Feed pumps

1

Diameter of ditto

2½

Stroke

12

Can one be overhauled while the other is at work

✓

67 Est.

No. of Bilge pumps

1

Diameter of ditto

3

Stroke

12

Can one be overhauled while the other is at work

✓

No. of Donkey Engines

2

Sizes of Pumps

6½ · 4½ · 6½ · 3 · 6"

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room

2

2" suction

In Holds, &amp;c.

1-2"

suction to fore-castle

1-2"

to

main fish room, 1-2"

to main slush well, 1-2"

to spare slush well

No. of Bilge Injections

1

sizes

3"

Connected to condenser, or to circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room &amp; size

2" ejector

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

4-2" hold and slush well pipes

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

Is the Screw Shaft Tunnel watertight

✓

Is it fitted with a watertight door

✓

worked from

✓

## BOILERS, &amp;c.—(Letter for record

S.)

Manufacturers of Steel

Messrs John Spencer & Sons L<sup>td</sup>

Total Heating Surface of Boilers

1595 sq

Is Forced Draft fitted

no

No. and Description of Boilers

One single ended

Working Pressure

185 lbs

Tested by hydraulic pressure to

370 lbs

Date of test

19. 4. 17

No. of Certificate

3206

Can each boiler be worked separately

✓

Area of fire grate in each boiler

49.5 sq

No. and Description of Safety Valves to

each boiler

2 Spring loaded

Area of each valve

5.94"

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

8"

Mean dia. of boilers

13'6"

Length

10'6"

Material of shell plates

S

Thickness

1½"

Range of tensile strength

28/32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

D.R.

long. seams

T.R.D.B.S

Diameter of rivet holes in long. seams

1½"

Pitch of rivets

8"

Lap of plates or width of butt straps

17½"

Per centages of strength of longitudinal joint

rivets 91.5

plate 85.1

Working pressure of shell by rules

185

Size of manhole in shell

16" · 12"

Size of compensating ring

40" · 30" · 1½"

No. and Description of Furnaces in each boiler

3 plain

Material

S

Outside diameter

39 17/32"

Length of plain part

top 79½"

bottom 74"

Thickness of plates

crown 49"

bottom 44"

Description of longitudinal joint

welded

No. of strengthening rings

✓

Working pressure of furnace by the rules

191

Combustion chamber plates: Material

S

Thickness: Sides

11/16"

Back

11/16"

Top

11/16"

Bottom

13/16"

Pitch of stays to ditto: Sides

9½ · 7½

Back

9 · 9¼

Top

10 · 8½

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

189

Material of stays

S

Area at smallest part

2.066

Area supported by each stay

85"

Working pressure by rules

219

End plates in steam space:

Material

S

Thickness

1½"

Pitch of stays

17" · 15"

How are stays secured

washed

Working pressure by rules

196

Material of stays

S

Area at smallest part

6 · 10

Area supported by each stay

255"

Working pressure by rules

249

Material of Front plates at bottom

S

Thickness

1"

Material of Lower back plate

S

Thickness

15/16"

Greatest pitch of stays

14 1/4"

Working pressure of plate by rules

212

Diameter of tubes

3 1/4"

Pitch of tubes

4 3/8" · 4 1/2"

Material of tube plates

S

Thickness: Front

1"

Back

27/32"

Mean pitch of stays

9 3/4" · 9"

Pitch across wide water spaces

14 1/4"

Working pressures by rules

189

Girders to Chamber tops: Material

S

Depth and

thickness of girder at centre

9 1/2" · 1 1/4"

Length as per rule

2 · 10

Distance apart

10"

Number and pitch of stays in each

3

8 1/2"

Working pressure by rules

204

Steam dome: description of joint to shell

✓

% 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



IS A DONKEY BOILER FITTED?

NO

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Two each top and bottom end connecting rod bolts and nuts, two main bearing bolts and nuts, one set of coupling bolts and nuts, one set each feed and bilge pump valves, iron of various sizes, a quantity of assorted bolts and nuts etc.

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

W. Rachebury Manufacturer.

Dates of Survey while building { During progress of work in shops - - 19.16. - Nov 16. 23. Dec 11. 1917. Jan 8. 13. 23. 29 Feb. 2. 5. 10. 12. 16. 17. 27. Mar 5. 6. 15. 17. 20  
During erection on board vessel - - - Apr 2. 16. 19. 26. 30. May 3. 8. 15. 19. 21.  
Total No. of visits 29

Is the approved plan of main boiler forwarded herewith

Yes  
Please return

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 12.2.17. Slides 17.2.17. Covers 12.2.17. Pistons 17.2.17. Rods 5.3.17. Connecting rods 17.3.17. Crank shaft 27.2.17. Thrust shaft 6.3.17. Tunnel shafts ✓ Screw shaft 23.11.16. Propeller 23.11.16. Stern tube 23.11.16. Steam pipes tested 3.5.17. Engine and boiler seatings 29.1.17. Engines holding down bolts 30.4.17. Completion of pumping arrangements 21.5.17. Boilers fixed 26.4.17. Engines tried under steam 19.5.17. Completion of fitting sea connections 29.1.17. Stern tube 29.1.17. Screw shaft and propeller 29.1.17. Main boiler safety valves adjusted 19.5.17. Thickness of adjusting washers P. 3/8 S. 5/16 27.2.17 G.A. 6.3.17 G.A. Material of Crank shaft Iron Identification Mark on Do. 1709 Material of Thrust shaft Iron Identification Mark on Do. 1710 23.11.16 G.A. Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. 1687. Material of Steam Pipes S.D. Copper ✓ Test pressure 400 lbs. ✓

Is an installation fitted for burning oil fuel

✓

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

Yes ✓

Is this machinery duplicate of a previous case

Yes ✓

If so, state name of vessel

"Lethon" ✓

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

The machinery of this vessel has been constructed under special survey in accordance with the approved plans and the rules of this Society; the materials and workmanship are good; the boiler and steam pipes have been tested as above by hydraulic pressure and found sound and good. The machinery has been properly fitted and secured on board, and on completion tried under steam and found satisfactory. The safety valves have been adjusted under steam and tested for accumulation which did not exceed 190 lbs per sq. inch.

In my opinion the vessel is eligible for the record

✱ L.M.C. 5.17.

It is submitted that  
this vessel is eligible for  
THE RECORD. + L.M.C. 5.17.

APPK

The amount of Entry Fee ... £ 1 : - :  
Special ... £ 26 : 14 :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : 3 :  
When applied for, 1/6 1917  
When received, 22/6/17

Geo. Allan  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE - 5 JUN. 1917

Assigned

+ L.M.C. 5.17

MACHINERY CERTIFICATE  
WRITTEN



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Lloyd's Register  
Foundation