

REPORT ON MACHINERY.

No. 29692

Received at London Office MON DEC 11 1916

Date of writing Report

When handed in at Local Office

4/12/16 Port of Hull

No. in Survey held at Hull
Reg. Book.

Date, First Survey

9/7/15 Last Survey 20th Nov. 1916609 on the *Shelley B. "Sarpidon"*

(Number of Visits)

74

Gross 344

Net 138

Master

Built at *Beverley*By whom built *Cook, Melton & Emmell*

When built 1916

Engines made at

*Hull*By whom made *Amos & Smith L^{ts} No. 2788.*

when made 1916

Boilers made at

*Hull*By whom made *Amos & Smith L^{ts}*

when made 1916

Registered Horse Power

Owners *Standard Steam Fishing Co.*Port belonging to *Grimsby*

Nom. Horse Power as per Section 28

89

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

13 1/2" 22 1/2" 37"

Length of Stroke

24"

Revs. per minute

Dia. of Screw shaft

as per rule 7 1/2"

Material of

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*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

3'-0"

Dia. of Tunnel shaft

as per rule 6 7/8"

Dia. of Crank shaft journals

as per rule 7 1/8"

Dia. of Crank pin

7 1/2"

Size of Crank webs

4 1/2" 14 1/2"

Dia. of thrust shaft under

collars

7 1/2"

Dia. of screw

9"

Pitch of Screw

11'-0"

No. of Blades

3

State whether moveable

No

Total surface

29.5 sq ft

No. of Feed pumps

1

Diameter of ditto

2 7/8"

Stroke

12"

Can one be overhauled while the other is at work

*Yes**ENR 64*

No. of Bilge pumps

1

Diameter of ditto

3"

Strokes

12"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

2

Sizes of Pumps

6 1/4" 4 1/4" 6" 8" 6" 3" 6"

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

*1-2" to main fish room**1-2" to main slush well**1-2" to spare slush well**1-2" to**main fish room**1-2" to main slush well**1-2" to spare slush well**1-2" to**main fish room**1-2" to main slush well**1-2" to spare slush well**1-2" to**main fish room**1-2" to main slush well**1-2" to spare slush well*

In Engine Room

*2 - 2" suction**1-2" to main fish room**1-2" to main slush well**1-2" to spare slush well**1-2" to**main fish room**1-2" to main slush well**1-2" to spare slush well**1-2" to**main fish room**1-2" to main slush well**1-2" to spare slush well**1-2" to**main fish room**1-2" to main slush well**1-2" to spare slush well**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

Yes

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

Yes

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" Cold & flush 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

Dates of examination of completion of fitting of Sea Connections

6.4.16

of Stern Tube

6.4.16

Screw shaft and Propeller

6.4.16

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

Yes

worked from

*Yes**Yes**Yes**Yes**Yes**Yes**Yes**Yes**Yes**Yes**Yes**Yes**Yes**Yes**Yes**Yes**Yes*

BOILERS, &c.—(Letter for record

S.)

Manufacturers of Steel

The Steel Co. of Scotland.

Total Heating Surface of Boilers

1595 sq ft

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

16.10.16

No. of Certificate

3168

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

49.5 sq ft

No. and Description of Safety Valves to

*each boiler**2 Spring loaded*

Area of each valve

5.94 sq in

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

1 1/8"

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

1 1/16"

Pitch of rivets

8"

Lap of plates or width of butt straps

17 1/8"

Per centages of strength of longitudinal joint

91.5

Working pressure of shell by rules

185

Size of manhole in shell

16" 12"

Size of compensating ring

40" 30" 1 1/8"

No. and Description of Furnaces in each boiler

3 Plain

Material

S.

Outside diameter

39 1/2"

Length of plain part

*top 79 1/2"**bottom 74"*

Thickness of plates

*top 1 1/8"**bottom 1 1/8"*

Description of longitudinal joint

Welded

No. of strengthening rings

Yes

Working pressure of furnace by the rules

191 lbs.

Combustion chamber plates: Material

S.

Thickness: Sides

1 1/16"

Back

1 1/16"

Top

1 1/16"

Bottom

1 1/16"

Pitch of stays to ditto: Sides

9 1/2" 7 1/2"

Back

9" 9 1/2"

Top

10" 8 1/2"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

189

Material of stays

S.

Diameter at smallest part

2" 0.66

Area supported by each stay

85 sq in

Working pressure by rules

219

End plates in steam space:

Yes

Material

S.

Thickness

1 1/2"

Pitch of stays

17" 16"

How are stays secured

4 washers

Working pressure by rules

196

Material of stays

S.

Diameter at smallest part

6" 10"</

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, nuts etc.*

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

Manufacturer.

Dates of Survey while building { During progress of work in shops -- *19/5-7 Jul 9/14 Aug 6/3 27 Sep 3/13 20 25 Oct 5/12 19 29 Nov 5/12 19 20 29 Dec 3/13 17 21 30/19/16 - Jan 7/13*
During erection on board vessel -- *28 Feb 4/8 25 Mar 8/9 17 23 30 Apr 3/6 7/13 8/29 May 7/13 20 27 Jun 10/17 24 Jul 3/11 5 22 31 Aug 5/12 14 19 20*
Total No. of visits *74*

Is the approved plan of main boiler forwarded herewith *Yes*

" " " donkey " " " *✓*

Dates of Examination of principal parts—Cylinders *5.8.16* Slides *9.9.16* Covers *5.8.16* Pistons *14.8.16* Rods *9.9.16*

Connecting rods *9.10.16* Crank shaft *29.9.16* Thrust shaft *29.9.16* Tunnel shafts *29.9.16* Screw shaft *3.4.16* Propeller *3.4.16*

Stern tube *3.4.16* Steam pipes tested *31.10.16* Engine and boiler seatings *6.4.16* Engines holding down bolts *4.11.16*

Completion of pumping arrangements *20.11.16* Boilers fixed *4.11.16* Engines tried under steam *10.11.16*

Main boiler safety valves adjusted *10.11.16* Thickness of adjusting washers *Port $\frac{15}{32}$ Star $\frac{3}{8}$*

Material of Crank shaft *S.* Identification Mark on Do. *1671 G.A.* Material of Thrust shaft *Iron* Identification Mark on Do. *1673 G.A.*

Material of Tunnel shafts *Iron* Identification Marks on Do. *1672 G.A.* Material of Screw shafts *Iron* Identification Marks on Do. *1635 P.F.*

Material of Steam Pipes *S.D. Copper* Test pressure *400 lbs.*

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 *Yes*

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *"Sithon"* Except that Intermediate

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

shaft is fitted on this vessel

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 I.M.C. 11.16

It is submitted that this vessel is eligible for THE RECORD + I.M.C. 11.16.

The amount of Entry Fee ... £ *1* : - :
Special ... £ *13* : 7 :
Donkey Boiler Fee ... £ : : :
Travelling Expenses (if any) £ *2* : : :
When applied for, *9/12/16*
When received, *20-12-16*

Geo. Allan P. Fitzgerald
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute *FRI. 15 DEC. 1916*

Assigned *+ L.H. 6 11.16*

ORIGINAL CERTIFICATE
WRITTEN



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Lloyd's Register
Foundation

These p

Signal Lett

Official

1399

No., Date, and

Whether Briti
Foreign Bu

British

Number of D

Number of M

Rigged ...

Stern ...

Build ...

Galleries ...

Head ...

Framework an

vessel ...

Number of Bu

Number of wa

and their cap

Total to quarter the d
to bottom of keel

No. of
sets of
Engines.

Description

One Recepta
Expansion
Vetula

No. of
Shafts.

Particu

One Description
Number ...
Iron or Stee
Loaded Pre

Under Tonnage I

Space or spaces b

Turret or Trunk

Forecastle ...

Bridge space

Poop or Break

Side Houses

Deck Houses

Chart House

Spaces for machin

Section 78 (2) o

1894 ...

Excess of Hatchw

Gross To

Deductions, as per

Register

NOTE 1.—The tonnag

Deck for p

NOTE 2.—The underm