

## REPORT ON MACHINERY.

No. 30718

Received at London Office THURSDAY OCT 1918

Date of writing Report

10

When handed in at Local Office

1/10/18 Port of Hull

No. in Survey held at  
Reg. Book.

Hull

Date, First Survey

Dec 14/17

Last Survey

Sep 20 1918

(Number of Vials) 39

on the

steel screw trawler Samuel Jameson

Tons

Gross 324

Net 149

When built 1918-9

Master

Built at

Lelby

By whom built

Cochran &amp; Sons Ltd

Engines made at

Hull

By whom made

Chas. A. Holmes &amp; Co. Ltd (A25)

when made 1918-9

Boilers made at

Hull

By whom made

Chas. A. Holmes &amp; Co. Ltd (A40)

when made 1918-9

Registered Horse Power

Owners

British Admiralty

Port belonging to

Nom. Horse Power as per Section 28

87

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

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

Triple expansion

No. of Cylinders

Three

No. of Cranks

3

Dia. of Cylinders

13" - 23" - 37"

Length of Stroke

26"

Revs. per minute

118

Dia. of Screw shaft

as per rule 7.9"

as fitted 8.2"

Material of screw shaft

steel

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

Length of stern bush

35 1/2"

Dia. of Tunnel shaft

as per rule 7.04"

Dia. of Crank shaft journals

as per rule 7.39"

as fitted 7 1/2"

Dia. of Crank pin

7 1/2"

Size of Crank webs

4 1/2" x 11"

Dia. of thrust shaft under

collars

7 1/2"

Dia. of screw

9 - 7 1/2"

Pitch of Screw

11 - 0"

No. of Blades

4

State whether moveable

no

Total surface

33 sq ft

No. of Feed pumps

one

Diameter of ditto

2 5/8"

Stroke

14 3/4"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

one

Diameter of ditto

2 5/8"

Stroke

14 3/4"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

one

9 3" cylinder

Sizes of Pumps

6" 4 1/4" x 6" duplex

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

In Engine Room

two

2" diam

In Holds, &amp;c. one 2" diam in each compartment

all suction also connected to yacht

No. of Bilge Injections

one

size 3 1/2"

Connected to condenser, or to circulating pump

yes

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

3" cylinder

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

no

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

Forward suction &amp; winch steam

How are they protected

strong 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

yes

Is it fitted with a watertight door

yes

worked from

BOILERS, &amp;c.—(Letter for record S ) Manufacturers of Steel

J. Spencer &amp; Sons &amp; Port Lelby

Total Heating Surface of Boilers

1440 sq ft

Is Forced Draft fitted

no

No. and Description of Boilers

one single ended

Working Pressure

200 lbs

Tested by hydraulic pressure to

400 lbs

Date of test

21-8-18

No. of Certificate

3310

Can each boiler be worked separately

yes

Area of fire grate in each boiler

48 sq ft

No. and Description of Safety Valves to

each boiler

two spring loaded

Area of each valve

4.9 sq in

Pressure to which they are adjusted

205

Are they fitted with easing gear

yes

Smallest distance between boilers

on uptakes and bunkers or woodwork

8 1/2" Pl lapped

Mean dia. of boilers

165"

Length

10'-8"

Material of shell plates

steel

Thickness

1 15/16"

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

double

long. seams

J.R. &amp; B.1

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

8 5/8"

Lap of plates or width of butt straps

18"

Per centages of strength of longitudinal joint

rivets 85.9

plate 85.5

Working pressure of shell by rules

202

Size of manhole in shell

16" x 12"

Size of compensating ring

7" x 1 15/16"

No. and Description of Furnaces in each boiler

three plain

Material steel Outside diameter

40"

Length of plain part

top 78 1/2"

Thickness of plates

crown 3 13/16"

bottom 3 1/2"

Description of longitudinal joint

welded

No. of strengthening rings

—

Working pressure of furnace by the rules

216

Combustion chamber plates: Material

steel

Thickness: Sides

3/4"

Back

23/32"

Top

3/4"

Bottom

3/4"

Pitch of stays to ditto: Sides

10" x 8"

Back

9 3/4" x 8 3/4"

Top

11" x 8"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

208

Material of stays

steel

Area at smallest part

2'07"

Area supported by each stay

88"

Working pressure by rules

211

Material

steel

Thickness

1 7/32"

Pitch of stays

9" x 17 7/8"

How are stays secured

J.R. &amp; B.1

Area at smallest part

7.5"

Area supported by each stay

335"

Working pressure by rules

233

Material of Front plates at bottom

steel

Thickness

1 5/16"

Material of Lower back plate

steel

Thickness

1 7/16"

Greatest pitch of stays

13 3/4" x 9 1/16"

Diameter of tubes

3 1/2"

Pitch of tubes

4 7/8"

Material of tube plates

steel

Thickness: Front

1 5/16" + 3/16"

Back

7/8"

Pitch across wide water spaces

14"

Working pressures by rules

275 lbs

Girders to Chamber tops: Material

steel

thickness of girder at centre

11" x 1 3/4"

Length as per rule

36.218"

Distance apart

11"

Working pressure by rules

201

Steam dome: description of joint to shell

yes

% of strength of joint

yes

Diameter

yes

Thickness of shell plates

yes

Material

yes

Description of longitudinal joint

yes

Diam. of rivet holes

yes

Pitch of rivets

yes

Working pressure of shell by rules

yes

Crown plates

yes

Thickness

yes

How stayed

yes

SUPERHEATER. Type

yes

Date of Approval of Plan

yes

Tested by Hydraulic Pressure to

yes

Date of Test

yes

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

yes

Diameter of Safety Valve

yes

Pressure to which each is adjusted



IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied:— *Two top end bolts & nuts, two bottom end bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of air, feed & bilge pump valves, six gun ring studs & nuts, one main & one donkey chest valve, two valves for donkey pump, one safety valve spring, 3 condenser tubes one set of fire bars & quantities of bolts & nuts & iron of various sizes.*

The foregoing is a correct description,

*CHARLES D. HOLMES & CO. LTD.*

Manufacturer.

Dates of Survey while building { During progress of work in shops -- *1917: Dec 6, 14. 1918: Apr 3, 10, 12, 19, 30. May 13. Jun 4, 7, 10, 12, 13, 15, 19, 20, 27, 28*  
During erection on board vessel -- *Jul 2, 4, 10, 12, 16, 18, 25, 26, Aug 1, 13, 15, 19, 21, 22, 26 Sep 3, 7, 8, 10, 16, 18, 20.*  
Total No. of visits *39*

Is the approved plan of main boiler forwarded herewith *dup already sent* ☒  
" " " donkey " " " ☒

Dates of Examination of principal parts—Cylinders *28-6-18* Slides *2-7-18* Covers *28-6-18* Pistons *13-28-6-18* Rods *4-7-18*  
Connecting rods *10-7-18* Crank shaft *12-7-18* Thrust shaft *12-7-18* Tunnel shafts ☒ Screw shaft *13-6-18* Propeller *13-6-18*  
Stern tube *13-6-18* Steam pipes tested *10-9-18* Engine and boiler seatings *18-6-18* Engines holding down bolts *3-9-18*  
Completion of pumping arrangements *20-9-18* Boilers fixed *16-9-18* Engines tried under steam *20-9-18*  
Completion of fitting sea connections *18-6-18* Stern tube *18-6-18* Screw shaft and propeller *18-6-18*  
Main boiler safety valves adjusted *18-9-18* Thickness of adjusting washers *7 3/32 & 3/16*

Material of Crank shaft *Iron* Identification Mark on Do. *2144 FLS* Material of Thrust shaft *Steel* Identification Mark on Do. *2145 FLS*

Material of Tunnel shafts ☒ Identification Marks on Do. ☒ Material of Screw shafts *Steel* Identification Marks on Do. *2184 FLS*

Material of Steam Pipes *Solid drawn 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 ☒

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *Thursy Class.*

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, the specification & the rules of this Society, the materials & workmanship are good. The boiler & steam pipes have been tested as above & found sound & tight. The machinery has been properly fitted & secured on board the vessel & on completion tested under full power for two hours as required by the Admiralty & found satisfactory. The safety valves have been adjusted under steam & tested for accumulation which did not exceed 2.15 lbs. In my opinion the vessel is eligible for the record + L.R.C. 9.18*

It is submitted that this vessel is eligible for THE RECORD. + L.R.C. 9.18

*Frank L. Stanger*  
*4-10-18*

The amount of Entry Fee £ 2 : 0 :  
Special ... £ 26 : 2 :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : :  
When applied for, *2/10/18*  
When received, *23/10/18*

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 8-OCT. 1918

Assigned

+ L.R.C. 9.18



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