

REPORT ON MACHINERY.

No. 30,329

Received at London Office

TUE. 15 JAN. 1918

Date of writing Report

10

When handed in at Local Office

10.1.18 Port of

Hull

No. in Survey held at
Reg. Book.

Hull

Date, First Survey

28/3/17

Last Survey

11-1-1918

on the

Steel screw steamer,

"John Price"

(Number of Visits)

62

Tons

Gross 273

Net 109

When built 1915-1

Master

Built at

Beverley

By whom built

Cook, Walton & Lunnell

Engines made at

Hull

By whom made

Amos & Smith

No. 2924

when made

1918-1

Boilers made at

Hull

By whom made

Amos & Smith

No. 2922

when made

1918-1

Registered Horse Power

Owners

British Admiralty

Port belonging to

Nom. Horse Power as per Section 28

83

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

12½" 21½" 35¼"

Length of Stroke

24"

Revs. per minute

115

Dia. of Screw shaft

as per rule 7.42

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

✓

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

33"

Dia. of Tunnel shaft

as per rule 6.44

Dia. of Crank shaft journals

as per rule 6.97

Dia. of Crank pin

7¼"

Size of Crank webs

14½" 4½"

Dia. of thrust shaft under

collars

collars

7¼"

Dia. of screw

9'0"

Pitch of Screw

11'3"

No. of Blades

4

State whether moveable

no

Total surface

31.5 sq ft

No. of Feed pumps

One

Diameter of ditto

2¾"

Stroke

12"

Can one be overhauled while the other is at work

✓

No. of Bilge pumps

One

Diameter of ditto

2¾"

Stroke

12"

Can one be overhauled while the other is at work

✓

No. of Donkey Engines

One 2" ejector

Sizes of Pumps

6¼" 4¾" 6"

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

In Engine Room

Two — 2" diam.

In Holds, &c. One — 2" diam in each Compartment

All suction also connected to ejector

No. of Bilge Injections

One sizes 3"

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & 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

Forward suction

How are they protected

Wood covering

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, &c.—(Letter for record

S.)

Manufacturers of Steel

Messrs John Spencer & Sons Ltd

Total Heating Surface of Boilers

1450 sq ft

Is Forced Draft fitted

no

No. and Description of Boilers

One single ended

Working Pressure

200

Tested by hydraulic pressure to

400

Date of test

29.9.17

No. of Certificate

3241 F.L.S.

Can each boiler be worked separately

✓

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 ft

Smallest distance between boilers or uptakes and bunkers or woodwork

8"

Mean dia. of boilers

13'0"

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

Double

Long. seams

2 R. & B. S.

Diameter of rivet holes in long. seams

1¾"

Pitch of rivets

7.71"

Lap of plates or width of butt straps

17½"

Percentage of strength of longitudinal joint

rivets 91.1

plate 84.6

Working pressure of shell by rules

200

Size of manhole in shell

16" 12"

Size of compensating ring

30" 40" 1½"

No. and Description of Furnaces in each boiler

3 Plain

Material

S.

Outside diameter

3'2½"

Length of plain part

top 78"

Thickness of plates

crown 13/16"

Description of longitudinal joint

welded

No. of strengthening rings

✓

Working pressure of furnace by the rules

217

Combustion chamber plates: Material

S.

Thickness: Sides

1/16"

Back

1/16"

Top

1/16"

Pitch of stays to ditto: Sides

8" 10"

Back

8½" 9"

Top

8" 9½"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

200

Material of stays

S.

Area at smallest part

2.4 sq ft

Area supported by each stay

97 sq ft

Working pressure by rules

222

End plates in steam space:

Material

Material

S.

Thickness

1½"

Pitch of stays

16½" 17½"

How are stays secured

2 R. & W.

Working pressure by rules

207

Area at smallest part

6.10

Area supported by each stay

289 sq ft

Working pressure by rules

219

Material of Front plates at bottom

S.

Thickness

1½"

Material of Lower back plate

S.

Thickness

1/16"

Greatest pitch of stays

14½" 9"

Working pressure of plate by rules

203

Diameter of tubes

3½"

Pitch of tubes

4¾"

Material of tube plates

S.

Thickness: Front

1½"

Back

2"

Pitch across wide water spaces

14"

Working pressures by rules

202

Girders to Chamber tops: Material

S.

Depth and

thickness of girder at centre

9½" 1½"

Length as per rule

Working pressure by rules

206

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

✓

SUPERHEATER. Type

✓

Date of Approval of Plan

✓

Tested by Hydraulic Pressure to

2020

Date of Test

✓

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

✓

Diameter of Safety Valve

✓

Pressure to which each is adjusted

✓

Is Easing Gear fitted

✓

Lloyd

IS A DONKEY BOILER FITTED?

No. ✓

If so, is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:— Four top end bolts and nuts, two bottom end bolts

and nuts, two main bearing bolts and nuts, one set of coupling bolts and
 One set of Air, Feed and high pump valves, one safety valve spring, one main and one donkey check valve
 nuts. Four Condenser tubes, three boiler tubes, one escape valve spring
 each size. Two donkey pump suction and delivery valves, one impeller
 and shaft for circulating pump. a quantity of assorted bolts and nuts
 and iron of various sizes.

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

Manufacturer.

Dates of Survey while building	During progress of work in shops - -	1917: - Mar 28 Apr 2 May 5, 25, Jun 2, 4, 9, 15, 16, 25, Jul 2, 4, 10, 11, 16, 19, 25, 28, 31, Aug 13, 15, 16, 17.
	During erection on board vessel - - -	1921, 24, 27, 29, 30, 31, Sep 10, 11, 13, 21, 26, 29, 1921, 15, 12, 15, 22, 24, 25, 30, 1922, 1, 2, 5, 6, 7, 8, 16, 20, 22, Dec 4, 11, 13, 15, 27, 29, 31.
	1918: - Jan 9, 11.	62.
	Total No. of visits	Is the approved plan of main boiler forwarded herewith <i>per memo</i>

Is the approved plan of main boiler forwarded herewith *prevously sent*

" " " *doneby* " " "

Dates of Examination of principal parts—Cylinders 28.7.17 Slides 16.8.17 Covers 16.8.17 Pistons 16.8.17 Rods 31.7.17
Connecting rods 16.8.17 Crank shaft 13.8.17 Thrust shaft 30.8.17 Tunnel shafts ✓ Screw shaft 10.7.17 Propeller 18.8.17
Stern tube 15.8.17 Steam pipes tested 5.11.17 Engine and boiler seatings 15.8.17 Engines holding down bolts 1.11.17
Completion of pumping arrangements 31.12.17 Boilers fixed 1.11.17 Engines tried under steam 29.12.17
Completion of fitting sea connections 19.8.17 Stern tube 19.8.17 Screw shaft and propeller 19.8.17
Main boiler safety valves adjusted 29.12.17 Thickness of adjusting washers P. $\frac{3}{8}$ " S. $\frac{11}{32}$ "

Material of Crank shaft Iron Identification Mark on Do. 2004 F.L.S. Material of Thrust shaft Iron Identification Mark on Do. 2014 F.L.S.
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. 1824 G.A.

Material of Steam Pipes S. D. Copper ✓

Test pressure 400 lbo

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 James Perry ✓

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 material and workmanship are good, the Boiler and steam pipes have been tested as above and found sound and tight. The machinery has been properly fitted and secured on board the vessel and on completion tested under full power for two hours as required by the Admiralty and found satisfactory. The safety valves have been adjusted under steam and tested for accumulation which did not exceed 208 lbs.

In our opinion the vessel is eligible for the record ♣ L. M. C. 1-18.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 1.18.

11/15/18.

The amount of Entry Fee	...	£	1	:	0	:	When applied for,
Special	...	£	24	:	18	:	14-1 1918
Donkey Boiler Fee	...	£	-	:	-	:	When received,
Travelling Expenses (if any)	£	-	:	3	:	:	30-1 1918

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 18. JAN. 1918

Assigned

+ Lm 6. 1. 18.

MACHINERY ONLY
WRITTEN.

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Lloyd's Register
Foundation