

REPORT ON MACHINERY

No. 31,038

THU. 24. APR. 1919

of writing Report

19

When handed in at Local Office

16.4-19 Port of Hull

o. in Survey held at
eg. Book.

Hull

Date, First Survey

May 16/18

Last Survey

Apr. 1st 1919

(Number of Visits)

33

Master F. B. PARROTT. Built at

Lilley

By whom built

Cochrane & Sons Ltd

Tons { Gross 326
Net 153
When built 1919

Engines made at

Hull

By whom made

Chas & Holmes 1612a & 161270

when made 1919

Boilers made at

Hull

By whom made

Chas & Holmes 1612a & 161270

when made 1919

Registered Horse Power

Owners

British Admiralty

Port belonging to

om. Horse Power as per Section 28

87

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

Yes

GINES, &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

115

Dia. of Screw shaft

as per rule

8.29

Material of

steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

no

Is the after end of the liner made water tight

the propeller boss

✓

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

no liner fitted

length of stern bush

36"

Dia. of Tunnel shaft

as per rule

7.04

Dia. of Crank shaft

as per rule

7.39

as fitted

7.2

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

1 1/2"

No. of Blades

4

State whether moveable

no

Total surface

33 1/2"

No. of Feed pumps

one

Diameter of ditto

2 3/4"

Stroke

14 3/4"

Can one be overhauled while the other is at work

✓

No. of Bilge pumps

one

Diameter of ditto

2 3/4"

Stroke

14 3/4"

Can one be overhauled while the other is at work

✓

No. of Donkey Engines

one

4 3/4" yd.

Sizes of Pumps

6, 4 1/2" x 6" duplex

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

In Engine Room

two

2" dia.

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

All suctions also connected to ejector

No. of Bilge Injections

one

sizes

3 1/2"

Connected to condenser for circulating pump

yes

Is a separate Donkey Suction fitted in Engine room & size

3" yd.

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

Toward suction & wind 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

✓

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record

S)

Manufacturers of Steel

Pat. Lillie & J. Spencer & Sons

Total Heating Surface of Boilers

1440 1/2

Is Forced Draft fitted

no

No. and Description of Boilers

one single ended

Working Pressure

200 lb.

Tested by hydraulic pressure to

400 lb.

Date of test

15-10-18

No. of Certificate

3327

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 in

Pressure to which they are adjusted

205

Are they fitted with easing gear

yes

Smallest distance between boilers

or plates and bunkers

8" Bl. Copper

Mean dia. of boilers

165"

Length

10'-8"

Material of shell plates

steel

Thickness

1 1/4"

Range of tensile strength

28-32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

double

long. seams

J.R.D.B.

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

8 3/8"

Length of plates or width of butt straps

18"

Per centages of strength of longitudinal joint

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 1/4"

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

bottom 69"

Description of longitudinal joint

welded

No. of strengthening rings

✓

Working pressure of furnace by the rules

206

Combustion chamber plates: Material

steel

Thickness: Sides

3/4"

Back

2 3/8"

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

211

End plates in steam space:

Material of stays

steel

Area at smallest part

2.07 sq in

Area supported by each stay

88 sq in

Working pressure by rules

210

Material of stays

steel

Material

steel

Thickness

1 3/8"

Pitch of stay

14' x 17 1/8"

How are stays secured

8.7 x 1/2"

Working pressure by rules

233

Material of Front plates at bottom

steel

Area at smallest part

7.6 sq in

Area supported by each stay

335 sq in

Working pressure by rules

216

Working pressure of plate by rules

216

Thickness

15/16"

IS A DONKEY BOILER FITTED?

ho

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 pump 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 & a quantity of bolts & nuts & rivets of various sizes.

The foregoing is a correct description,

CHARLES D. HOLMES & Co., Ltd.
Arthur Holmes

DIRECTOR

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1918: May 16 Jun 1 12 13 25 27 Jul 10 11 15 16 18 19 20 21 22 23 24 25 26 27 Aug 1 3 15 19 22 30 Sep 3 11 12
During erection on board vessel -- 16 19 24 28 Oct 1 11 14 15 17 Nov 1 6 Dec 1 10 19 Jan 2 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Feb 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Mar 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Apr 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 May 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Jun 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Jul 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Aug 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Sep 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Oct 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Nov 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Dec 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Jan 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Feb 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Mar 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Apr 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 May 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Jun 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Jul 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Aug 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Sep 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Oct 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Nov 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Dec 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Total No. of visits 35

Is the approved plan of main boiler forwarded herewith? Sent previously

Dates of Examination of principal parts—Cylinders 30-8-18 Slides 9-10-18 Covers 30-8-18 Pistons 19-9-18 Rods 12-9-18
Connecting rods 16-9-18 Crank shaft 12-9-18 Thrust shaft 9-10-18 Tunnel shafts ✓ Screw shaft 27-7-18 Propeller 27-7-18
Stern tube 13-8-18 Steam pipes tested 25-11-18 Engine and boiler seatings 19-8-18 Engines holding down bolts 6-11-18
Completion of pumping arrangements 31/3/19 Boilers fixed 6-11-18 Engines tried under steam 31/3/19
Completion of fitting sea connections 19-8-18 Stern tube 19-8-18 Screw shaft and propeller 19-8-18
Main boiler safety valves adjusted 5-12-18 Thickness of adjusting washers 7/32 & 7/16
Material of Crank shaft steel Identification Mark on Do 2161 FLS Material of Thrust shaft steel Identification Mark on Do 2171 FLS
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts steel Identification Marks on Do. 1903 JR
Material of Steam Pipes solid drawn copper Test pressure 400
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 Tursey class

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery of this vessel has been built under special survey the materials & workmanship are good. On completion the machinery was tried under full working conditions with satisfactory results. The machinery of this vessel is now in a good & efficient condition & eligible in our opinion to be classed & to have the record LMC 4 19 marked in the Society's Register Book, in red.

It is submitted that this vessel is eligible for THE RECORD + LMC 4. 19.

The amount of Entry Fee ... £ 2 : 0 :
Special ... £ 26 : 2 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 23/4 19
When received, 30/4 19

Committee's Minute TUE APR 29 1919
Assigned LMC 4. 19

Engineer Surveyor to Lloyd's Register of Shipping.



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