

Rpt. 4.

REPORT ON MACHINERY.

TUE 6-11-1919 No. 31559

Date of writing Report

When handed in at Local Office

Received at London Office

No. in Survey held at
Reg. Book.

Hull.

31/12 1919 Port of Hull.

Date, First Survey 3. 4. 19

Last Survey 12. 11. 1919

(Number of Visits 4)

Master

Built at

Beverley

By whom built

Cook, Welton & Gemmell Ltd

Tons

Gross 290.

Engines made at

Ereth, London.

By whom made

Messrs Fraser & Chalmers Ltd.

No. 21413

When built

1919

Boilers made at

✓

By whom made

Admiralty

when made

1919

Registered Horse Power

✓

Owners

Admiralty

when made

1919

Nom. Horse Power as per Section 28

✓

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines

Dia. of Cylinders

✓

Length of Stroke

✓

Revs. per minute

✓

No. of Cylinders

✓

No. of Cranks

✓

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

No

Dia. of Screw shaft

as per rule 7 1/2

Material of

iron

in the propeller boss

✓

If the liner is in more than one length are the joints burned

✓

Is the after end of the liner made water tight

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

✓

Dia. of Tunnel shaft

as per rule

Dia. of Crank shaft journals

as per rule

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

collars

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

No

Total surface

35.5 sq. ft.

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

✓

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

✓

No. of Donkey Engines

Sizes of Pumps

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

In Holds, &c.

One 2" for forehold, one 2" for stowaway

No. of Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

In Engine Room

one 2" ejecta from stowaway.

No. of Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses

✓

Are the roses in Engine room always accessible

✓

Are the sluices on Engine room bulkheads always accessible

✓

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 stowaway 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 Casings.

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

✓

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

✓

Is the Screw Shaft Tunnel watertight

✓

Is it fitted with a watertight door

worked from

✓

OILERS, &c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers

✓

Is Forced Draft fitted

✓

No. and Description of Boilers

✓

Working Pressure

✓

Tested by hydraulic pressure to

Date of test

No. of Certificate

No. and Description of Safety Valves to

each boiler

Area of fire grate in each boiler

Pressure to which they are adjusted

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Thickenss

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

Long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

Thickenss of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickenss: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Bottom

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space

Material

Thickenss

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickenss

Material of Lower back plate

Thickenss

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickenss: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

Thickenss of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickenss of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickenss

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

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

007376-007324-0248

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IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied :—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building	During progress of work in shops - -	1919: - Apr 3. 23. Sept 6 Nov 12. 1918: Dec 11 Jan 20 Mar 6 13 24 310 12 16 24 30 May 10 24 Jun 2 22 30 Aug 2 11 16
	During erection on board vessel - -	21 23 25 28 29 Sep. 2 3 6 9 10 11 25 26 Oct 3 11 29. Nov 2 7 11 13. Dec 9.
	Total No. of visits	4
	Is the approved plan of main boiler forwarded herewith	

Is the approved plan of main boiler forwarded herewith

“ “ “ *donkey* “ “ “

Dates of Examination of principal parts—Cylinders		✓	Slides	✓	Covers	✓	Pistons	✓	Rods	✓	
Connecting rods	✓	Crank shaft	✓	Thrust shaft	✓	Tunnel shafts	✓	Screw shaft	3/4/19	Propeller	3/4/19
Stern tube	✓	Steam pipes tested	✓	Engine and boiler seatings	6/9/19	Engines holding down bolts					
Completion of pumping arrangements	✓	Boilers fixed	✓	Engines tried under steam	12 th	Nov. 1919					
Completion of fitting sea connections	23/4/19	Stern tube	23/4/19	Screw shaft and propeller	23/4/19						
Main boiler safety valves adjusted	✓	Thickness of adjusting washers	✓								
Material of Crank shaft	✓	Identification Mark on Do.	✓	Material of Thrust shaft	✓	Identification Mark on Do.	✓				
Material of Tunnel shafts	✓	Identification Marks on Do.	✓	Material of Screw shafts		Identification Marks on Do.	2221				
Material of Steam Pipes	✓			Test pressure	✓						
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	✓										
Is this machinery duplicate of a previous case	✓			If so, state name of vessel	✓						

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

The stern tube, screw shaft, propeller and sea-connections were fitted in accordance with rules of the Society, the rest of the machinery and boiler were built & fitted under the survey of the British Corporation, see certificate dated 19/11/19 attached.

Certificate (if required) to be sent to

The amount of Entry Fee	...	£	:	:	} When applied for, 19
Special	...	£	:	:	
Donkey Boiler Fee	...	£	:	:	
Travelling Expenses (if any)	£	:	:	:	

C. H. Fowley.
Engineer Surceytor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI JAN 9 - 1926

Feb 11. 1879

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