

REPORT ON MACHINERY.

No. 30915

Received at London Office FEB. 1919

Date of writing Report

19

When handed in at Local Office

4/11/19 Port of Hull

No. in Survey held at

New Holland

Date, First Survey

Nov 11th 1917

Last Survey

Jan 28th 1919

Reg. Book.

on the steel hull of the vessel B & 30

(Number of Visits 10)

Tons

Gross

Net

When built 1919-1

Master

Built at New Holland

By whom built W. H. Warren

Engines made at

By whom made

when made

Boilers made at

Annan

By whom made

Cochran & Co. Ltd

when made 1919-1

Registered Horse Power

Owners

British Admiralty

Port belonging to

Norm. Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

Dia. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule

as fitted

Material of

screw shaft

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

Is the after end of the liner made water tight

In 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 stuff lapped or projected between the liners

Length of stern bush

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

Total surface

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

two

Sizes of Pumps

9.5 x 1.5, 3.5 x 1.5

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

In Engine Room

Boiler room one 2.5 dia

In Holds, &c.

none Holds pumped by Donkey

pump suction 2.5 dia in each compartment

No. of Bilge Injections

one size 2.5

Connected to condenser, or to circulating pump

yes

Is a separate Donkey Suction fitted in

Boiler

yes 2.5"

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

none

How are they protected

yes

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

yes

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

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

each boiler

Area of each valve

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

Thickness

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

top

Thickness of plates

crown

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

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

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness 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

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

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

W1584-0107

WEB
FRAMES, In
No. of Side
FRAMES, In
No. of Side
Size of Face
KET PLATE
Frames, dept
KHEADS.

44
LKHEADS
16 x 36

VISION, 8
TION
UDINAL,

outside Plate
Sluice Valve

TRAKES.

KEEL.
state River
or A S

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IS A DONKEY BOILER FITTED? *Two Cochrane* If so, is a report now forwarded? *see separate report*
SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - - } *Nov 11/17 to Jan 28/19*
{ During erection on board vessel - - - }
Total No. of visits *10*

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders ✓ Slides ✓ Covers ✓ Pistons ✓ Rods ✓
Connecting rods ✓ Crank shaft ✓ Thrust shaft ✓ Tunnel shafts ✓ Screw shaft ✓ Propeller ✓
Stern tube ✓ Steam pipes tested *19531-12-19* Engine and boiler seatings ✓
Completion of pumping arrangements Boilers fixed *23-12-18* Engines holding down bolts *23-12-1*
Completion of fitting sea connections *6-9-18* Stern tube ✓ Engines tried under steam *28/1/18*
Main boiler safety valves adjusted *28/1/19* Thickness of adjusting washers *5 3/8" P 32" AFTER. BOILER 5 3/8" P 32"*
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. ✓
Material of Steam Pipes *lap welded iron* Test pressure *540 lbs*
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 *yes* If so, state name of vessel *B. 829*

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

The two winches (four cylinder 11" dia x 12" stroke) supplied by the Admiralty, together with the condenser & all auxiliary machinery & two vertical boilers have been properly fitted & secured on board the vessel & on completion tested under steam & found satisfactory. The steam pipes have been tested & safety valves adjusted under steam.

In our opinion the vessel is eligible for the record & to B. 1-19

The boilers are marked

It is submitted that
this vessel is eligible for
THE RECORD, + 2 DB 1-19, 150 lb

FORD BOILER
No 14256
LLOYD'S TEST
300 LBS
W.H.C. 3/5/18

AFTER BOILER
No 14254
LLOYD'S TEST
300 LBS
W.H.C. 1/5/18

Certificate (if required) to be sent to

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

Committee's Minute FRI. 7 FEB. 1919

Assigned + DB (2) 1/19.

Frank L. Stanger
Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation