

REPORT ON MACHINERY.

No. 12203.

Received at London Office

to of writing Report

When handed in at Local Office

7. 4. 1919 Port of Aberdeen

in Survey held at Aberdeen
eg. Book.

Date, First Survey 4. 11. 18

Last Survey

19. 3. 1919

on the Reinforced Concrete Dumb Barge "CRETETREE"

(Number of Volls 22)
PD. 146

Gross 410. 53
Net 660. 53

aster

Built at Aberdeen

By whom built Aberdeen Concrete S.B. Coy.

When built 1919

ines made at

By whom made

when made

ilers made at Annan

By whom made Cochran & Co. Annan Ltd.

when made 1918

gistered Horse Power

Owner

Sir Ernest Glover London

Port belonging to London

m. Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

GINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

ia. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule
as fitted

Material of
screw shaft

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

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

tween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two

ers are fitted, is the shaft lapped or protected between the liners

Length of stern bush

ia. of Tunnel shaft

as per rule
as fitted

Dia. of Crank shaft journals

as per rule
as fitted

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

llars

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

Total surface

o. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

o. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

o. of Donkey Engines

Two

Sizes of Pumps

FEED 3" x 2 1/2"
BALLAST 3" x 4"

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

Engine Room

In Holds, &c. No. 1. one of 2 1/4" - No. 2. one of 2 1/4"

No. 3. one of 2 1/4" - Fore Peak. one of 2 1/4" - Aft Peak. one of 2 1/4"

o. of Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

re all the bilge suction pipes fitted with roses yes. Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

re all connections with the sea direct on the skin of the ship yes

Are they Valves or Cocks

both valves & cocks

re 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

re 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

That pipes are carried through the bunkers

None

How are they protected

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

yes

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

yes

ates of examination of completion of fitting of Sea Connections

16. 12. 18

of Stern Tube

Screw shaft and Propeller

the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

ILERS, &c.—(Letter for record)

Manufacturers of Steel

atal Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

orking Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

in each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

ch 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

ickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

g. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

er centages of strength of longitudinal joint

rivets
plate

Working pressure of shell by rules

Size of manhole in shell

ne of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

ngth of plain part

top
bottom

Thickness of plates

crown
bottom

Description of longitudinal joint

No. of strengthening rings

orking pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

itch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

aterial of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space

aterial

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

ickness

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

itch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

ickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

orking pressure by rules

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

arately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

les

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

orking pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

IS A DONKEY BOILER FITTED? Yes If so, is a report now forwarded? Yes Glasgow No. 34825
SPARE GEAR. State the articles supplied: None

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1918
During erection on board vessel --- Nov. 4, 29. Dec. 11, 14, 21, 23. 1919 Jan. 10, 17, 22, 24, 30 Feb. 3, 4, 14, 21, 24 Mar. 6, 12, 14, 18, 19
Total No. of visits 22

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 ✓ Engine and boiler seatings ✓ Engines holding down bolts ✓
Completion of pumping arrangements 21. 2. 19 Boilers fixed 3. 2. 19 Engines tried under steam ✓
Main boiler safety valves adjusted 12. 3. 19 Thickness of adjusting washers Port 3/4" Starboard 3/2"
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 ✓ Test pressure ✓

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 ✓ If so, state name of vessel ✓

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

A donkey boiler by Cochran & Co. Annan Ltd. Glasgow Report No. 34825 has been properly fitted and secured on board in boiler house situated on top of After peak Tank and covered in above by concrete deck house forming after part of bridge. Complete union for feed pump, mountings &c as per approved plan and Specification.
Ballast donkey fitted in boiler room, with suction to Holds, Peaks and Sea and discharges to Deck, Peaks and Overboard.
Steam Windlass, Steering Engine, and Steam Capstan all properly fitted and secured and tried under steam with satisfactory results.

It is submitted that this vessel is eligible for THE RECORD. + DB 3. 19. 150 tb.

HUD. 9/4/19. J.R.

The amount of Entry Fee ... £ : :
Special 3 : 3
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 16/5/19
When received, 16/4/19

Ridley Yorrell
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping

Committee's Minute
Assigned + 8B 3.19

