

Rpt. 4. **REPORT ON MACHINERY.** No. 80267

Date of writing Report 19... When handed in at Local Office 17 FEB 1920 Port of...
 No. in Survey held at Fiddlers Ferry Date, First Survey Dec 31/19 Last Survey Feb 6 1920
 Reg. Book. on the Concrete Barge 'Cretuove' (Number of Visits 2)
 Master Built at Fiddlers Ferry By whom built Concrete Seacraft Co. Tons Gross 757 Net 712 When built 1920
 Engines made at... By whom made... when made...
 Boiler made at Hitchin By whom made W. St. James & Co. when made...
 Registered Horse Power... Owners Admiralty Port belonging to London
 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 Dia. of Screw shaft as per rule 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 shaft lapped or protected 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 2, Duplex Sizes of Pumps 5 1/4 + 4 1/4 X 5; 3 + 2 duplex No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room none In Holds, &c. no 1 - two 2"; no 2 two 2"; no 3 two 2"
 No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room of size
 Are 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 none
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves & Cocks Yes
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates in A.P.T. 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 Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes
 What pipes are carried through the bunkers How are they protected
 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

BOILERS, &c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers Vertical Donkey Boiler
 Working Pressure 150 lbs Tested by hydraulic pressure to Date of test No. of Certificate 1204
 Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
 each boiler 2 spring loaded Area of each valve 3 1/4 sq" Pressure to which they are adjusted 150 lbs Are they fitted with easing gear Yes
 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
 bottom 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

IS A DONKEY BOILER FITTED? *Yes* If so, is a report now forwarded? *Yes*

SPARE GEAR. State the articles supplied:—

By whom made
By whom made
By whom made
Port belonging to
Is the boiler fitted for cargo purposes

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops
During erection on board vessel
Total No. of visits

1912 Dec 31 1920 Feb 6

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 Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted 3-12-19 Thickness of adjusting washers 9/32"

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 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 *Yes* If so, state name of vessel *Baye 'Cretecamp'*

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

The donkey boiler has been fitted on board efficiently, and its safety valves adjusted under steam as above.

Pumping arrangements, donkey injector tried under steam & found satisfactory.

This vessel's machinery is now eligible to be classed with record of + N.D.B 2:20

It is recommended that this vessel be classed for + D.B. 2:20 150 lbs

The amount of Entry Fees: £
Special Chargeable *1/3* £ 3 : 3 :
Donkey Boiler Fee *(1/3)* £ 3 : 3 :
Travelling Expenses (if any) £ : :
When applied for, 2/3/1920 from *London*
When received, 16/4/20 RABN

R. Townsend
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

LIVERPOOL 17 FEB 1920
+ D.B. 2:20
ZR



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Lloyd's Register Foundation
Committee's Assigned

t. 5b.

No. in Survey Reg. Book. on the aster boiler made at owners

VERTICAL

made at *Stirling*
tested by hydraulic
No. of safety valves
ster the donkey boiler
length *26-30*
ap of plating *4*
radius of do. *1/16*
thickness of furnace plates *1/16*
thickness of water

Dates of Survey while building
During work
During board
Total

GENERAL

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The Surveyors are requested not to write on or below the space for Committee's Minute.