

REPORT ON MACHINERY.

No. 81960

Date of writing Report 19 1919 When handed in at Local Office 12.6.19 Port of London
 No. in Survey held at Shoreham Date, First Survey 9 Last Survey May 22 1919
 Reg. Book. Concrete Barge "Cretes-hade" (Number of Visits 1)
 Master Built at Shoreham By whom built John van der Meer Tons Gross
 Engines made at By whom made When built 1919
 Boilers made at Hitchin By whom made W.H. Spencer & Co. when made —
 Registered Horse Power — Owners H.M. Government Port belonging to —
 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

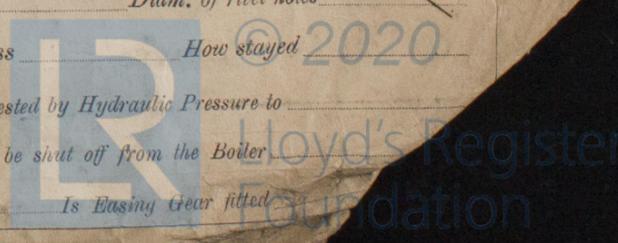
No. of Cylinders — No. of Cranks —
 Dia. of Cylinders — Length of Stroke — Revs. per minute — Dia. of Screw shaft — Material of screw shaft —
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube — Is the after end of the liner made water tight —
 Is the propeller boss — 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 — Dia. of Crank shaft journals — Dia. of Crank pin — Size of Crank webs — Dia. of thrust shaft under —
 rollers — 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 1 Sizes of Pumps 5 1/4" x 4 3/4" x 5" Duplex No. and size of Suctions connected to both Bilge and Donkey pumps —
 Engine Room — In Holds, &c. 1 - 2 1/4" each hold
 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 Yes 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 Cocks
 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
 Are that pipes are carried through the bunkers For 2 suction How are they protected Wood covering
 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) 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 —
 on 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 —
 Percentages of strength of longitudinal joint — Working pressure of shell by rules — Size of manhole in shell —
 No. and Description of Furnaces in each boiler — Material — Outside diameter —
 Length of plain part — Thickness of plates — Description of longitudinal joint — No. of strengthening rings —
 Working pressure of furnace by the rules — Combustion chamber plates: Material — Thickness: Sides — Back — Top — Bottom —
 Length 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 —
 Length 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 —
 Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet holes —
 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 —
 Material of Safety Valve — Pressure to which each is adjusted — Is Easing Gear fitted —

2510-5691m



IS A DONKEY BOILER FITTED?

Yes.

If so, is a report now forwarded?

Yes.

SPARE GEAR. State the articles supplied:—

Mark on Donkey Boiler

No 1188
Lloyd's Test
300 lbs
10-10-18 H.P.C.

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

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 2/5/19 Engines holding down bolts

Completion of pumping arrangements 2/5/19 Donkey Boilers fixed 2/5/19 Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

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.

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 Yes If so, state name of vessel Standard Vanger

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

The Donkey Boiler described accompanying Report has been securely fitted on board & satisfactorily tried under steam. The safety valves (double 2" dia) have been tested & found to lift at 150 lbs. Lasing gear fitted. A steam feed pump & an injector are supplied. The general service pump has been tried on the bilges & found satisfactory.

This vessel is in my opinion eligible to have notation + D.B. (with date) in The Register Book.

It is submitted that this vessel is eligible for THE RECORD. + DB 5.19 150lb.

The amount of Entry Fee ... £ 3 : 3 :
Fitting on board Special ... £ : :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :

When applied for, 25/7/19

When received, 30-7-19

H Gardner Smith
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

TUE. 22 JUL. 1919

TUE. OCT. 19 1920

FRI. 4 MAR. 1921

FRI. FEB. 4 1921



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