

# REPORT ON MACHINERY.

No. 10490

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Writing Report 29<sup>th</sup> Dec. 1919 When handed in at Local Office 5<sup>th</sup> March 1920 Port of Southampton  
 Date, First Survey 29<sup>th</sup> April. 1919 Last Survey 18<sup>th</sup> Dec. 1919  
 (Number of Visits 3)

Survey held at Lymington  
 on the Admiralty Drifter "LOP"  
 Built at Lymington By whom built G. Courtney & Co. L<sup>td</sup>  
 Tons { Gross 96.09  
 Net  
 When built

Engines made at Newcastle By whom made Elliott & Garwood & Co. L<sup>td</sup> when made 1919  
 Propellers made at Leeds By whom made Messrs. Clayton, Sax & Co. L<sup>td</sup> when made 1919

Registered Horse Power Owners The Admiralty Port belonging to  
 Horse Power as per Section 28 43 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

GINES, &c.—Description of Engines No. of Cylinders No. of Cranks

Length of Stroke Revs. per minute Dia. of Screw shaft as per rule as fitted Material of screw shaft

screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight

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

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

are fitted, is the shaft lapped or protected between the liners Length of stern bush

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

s Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

of Donkey Engines 1 Duplex Sizes of Pumps 5 1/2" Steam x 3 1/2" Water No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 6.2", - 1.1 1/2", - 1.1 1/4". In Holds, &c. 1, 2"

Bilge Injections 1 sizes 2 1/2" Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes 2"

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 yes

all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Cocks.

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

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

pipes are carried through the bunkers Capstan, Steam & Exhaust. How are they protected Wood casings.

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

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

Screw Shaft Tunnel watertight No Tunnel Is it fitted with a watertight door worked from

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

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

each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to

boiler 2, Spring Loaded Area of each valve 8.29" Pressure to which they are adjusted 180 lb. Are they fitted with easing gear yes

least distance between boilers or uptakes and bunkers or woodwork 14" Mean dia. of boilers Length Material of shell plates

ness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

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 rivets Working pressure of shell by rules Size of manhole in shell

of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

th 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

of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space:

material of stays Area at smallest part Area supported by each stay Working pressure by rules Material of stays

material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom

at smallest part Area supported by each stay Working pressure by rules Working pressure of plate by rules

ness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

ness of girder at centre Length as per rule Distance apart Number and pitch of stays in each % of strength of joint

working pressure by rules Steam dome: description of joint to shell Diam. of rivet holes

eter Thickness of shell plates Material Description of longitudinal joint How stayed

of rivets Working pressure of shell by rules Crown plates Thickness Tested by Hydraulic Pressure to

ERHEATER. Type Date of Approval of Plan Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

of Test Pressure to which each is adjusted Is Easing Gear fitted

meter of Safety Valve

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IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

PER PRO

GEORGE COURTNEY & CO.

The foregoing is a correct description,

THE BERTHON BOAT CO. LTD. (Proprietors)

Installation Contractors  
Manufacturer.

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

29-4-19, 31-7-19, 19-8-19, 11-12-19, 18-12-19.

5

Is the approved plan of main boiler forwarded herewith

No

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

Tested in  
Lanchester District

Engine and boiler seatings

31-7-19

Engines holding down bolts

31-7-19

Completion of pumping arrangements

9-12-19

Boilers fixed

19-8-19

Engines tried under steam

11-12-19

Completion of fitting sea connections

19-12-18

Stern tube

5-12-18

Screw shaft and propeller

9-1-19

Main boiler safety valves adjusted

18-12-19

Thickness of adjusting washers

P. 3/8". S. 7/16".

Material of Crank shaft

Steel Identification Mark on Do.

4788  
J.P.W.

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

Copper

Test pressure

360 lb.

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

No

If so, state name of vessel

General Remarks

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

The Machinery and Boiler of this

Vessel have been efficiently fitted on board, and on trial proved satisfactory.

The same is eligible in my opinion to have notation + L.M.C. 12.19.

The Spare Gear is in order with the rule requirements and the Specification.

This report has been kept back for the completion of Survey on the Hull.

It is submitted that  
this vessel is eligible for

THE RECORD. + L.M.C. 12.19.

8/3/20

J.W.D.

J.P.W.

The amount of Entry Fee

Special

Donkey Boiler Fee

Travelling Expenses (if any)

When applied for,

When received,

For J. Marshall & Self.

A.H. Doyle

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

MACHINERY CERTIFICATE  
NOTED  
21-7-20

10 MAR 1920

+ L.M.C. 12.19.



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