

REPORT ON MACHINERY.

No. 81991

Date of writing Report

16. 7. 19

When handed in at Local Office

17. 7. 19

Port of London

Received at London Office

17 JUL 1919

No. in Survey held at
Reg. Book.

Faversham

Date, First Survey

Apr. 29th

Last Survey

June 26th 1919

23 Sep. on the

M.S. "Violette"

(Number of Visits 4)

Master

Built at Faversham

By whom built

James Colbeck Sons & Co. Ltd

Gross
Tons
Net

When built 1919

Engines made at

Streckholm

By whom made

J & C Bolinders & Co. Ltd

when made

1919

Boilers made at

By whom made

when made

Registered Horse Power 120 B.H.P.

Owners

F. Oppenheimer, Strangland & Green

Port belonging to

London

Nom. Horse Power as per Section 28

34

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines Bolinders Two Stroke No. of Cylinders 2 No. of Cranks 2

Dia. of Cylinders

14 61/64

Length of Stroke

16 9/16

Revs. per minute

230

Dia. of Screw shaft

as per rule 5.64

Material of screw shaft

SteelIs the screw shaft fitted with a continuous liner the whole length of the stern tube No liner Is the after end of the liner made water tight in the propeller boss Yes If the liner is in more than one length are the joints burned Yes 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 Yes If twoliners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 1-11 1/2

Dia. of Tunnell shaft

as per rule 4.9

Dia. of Crank shaft journals

as per rule 5.6

Dia. of Crank pin

6.1

Size of Crank webs

3.127

Dia. of thrust shaft under

collars 5 3/16

Dia. of screw

59

Pitch of Screw

43

No. of Blades

3

State whether moceable

No

Total surface

9.3

No. of Feed pumps

1

Diameter of ditto

5

Stroke

4Can one be overhauled while the other is at work Yes

No. of Bilge pumps

1

Diameter of ditto

5

Stroke

4Can one be overhauled while the other is at work Yes

No. of Donkey Engines

1

(Which) Sizes of Pumps

3 1/2 x 3 1/4

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

In Engine Room

2 - 2"

In Holds, &c.

2 - 2"

No. of Bilge Injections

1Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & sizeYes 2"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 YesAre all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks CocksAre 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 AboveAre 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 YesWhat pipes are carried through the bunkers Yes How are they protected YesAre all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times YesAre the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges YesIs the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Yes

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

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

W781 - 0049

IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—Two connecting rod top end bolts, two bottom end bolts, two main bearing bolts, set of coupling bolts, set circulating & bridge pump valves, eight piston rings, cylinder head studs, two eccentric rod bolts, rocker arm pin with stop ring, etc & a quantity of assorted bolts & nuts, iron, etc.

The foregoing is a correct description,

For and on behalf of

JAMES POLLOCK BONS & Co., Ltd.

Manufacturers

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

1919 Apr. 29. May 12. June 12. 26.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 29/4/19 Slides — Covers 29/4/19 Pistons 29/4/19 Rods —
Connecting rods 29/4/19 Crank shaft 29/4/19 Thrust shaft 29/4/19 Tunnel shafts — Screw shaft — Propeller 12/6/19
Stern tube — Steam pipes tested — Engine and boiler seatings 13/5/19 Engines holding down bolts 22/6/19
Completion of pumping arrangements 26/6/19 Boilers fixed — Engines tried under steam 26/6/19
Completion of fitting sea connections 13/5/19 Stern tube 13/5/19 Screw shaft and propeller 12/6/19
Main boiler safety valves adjusted — Thickness of adjusting washers —

Material of Crank shaft steel Identification Mark on Do. — Material of Thrust shaft steel Identification Mark on Do. —
Material of Tunnel shafts steel Identification Marks on Do. — Material of Screw shafts steel Identification Marks on Do. —
Material of Steam Pipes — Test pressure —

Is an installation fitted for burning oil fuel? Oil Engines Is the flash point of the oil to be used over 150°F. Yes

Have the requirements of Section 49 of the Rules been complied with? Yes

Is this machinery duplicate of a previous case? M Type If so, state name of vessel M.S. "Mollie"

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

The machinery of this vessel (M. 2's 13081/2) was not constructed under survey but has been opened up and carefully examined & so far as can be seen is satisfactory. It has been securely fitted on board & tried under working conditions.

The fuel tanks have been tested to 10 lbs hydraulic pressure & are fitted with drip trays, a minimum fire extinguisher is supplied in addition to sand boxes & the general fitting out is satisfactory & in accordance with the Rules.

This vessel is in my opinion eligible to have notation L.M.C. 6, 19 (in red) in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. LMC 6.19. (Annual Survey)

The amount of Entry Fee ... £ 1: 0: 0
Special ... £ 8: 0: 0
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ 5: 8: : 20.8.19

Oil Engines 2SC SA 2 cy. 14 15/16 16 3/8 34 NHP. Bell
When applied for, V.C.V. Bolinders & Ltd. Stockholm. 21.7.19

When received,

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

Committee's Minute FRI. 8-AUG. 1919

TUE. 19.AUG. 1919

Assigned LMC 6.19

CERTIFICATE
WRITTEN



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Foundation