

Received at London Office

WED. 20 FEB. 1913

Date of writing Report

19

When handed in at Local Office

19. 2. 10/18. Port of *Aberdeen*No. in Survey held at *Aberdeen*
Reg. Book.

Date, First Survey

19. 9. 14.

Last Survey

13. 2. 1918

on the *steel & drifter*. *Indian Summer*.(Number of Visits *2*).Tons } Gross *96.46*
Net *33.36*Master *✓*Built at *Aberdeen*

By whom built

John Lewis & Sons Ltd. No. 55 When built *1918*Engines made at *Aberdeen*

By whom made

John Lewis & Sons Ltd. No. 126 when made *1918*Boilers made at *Renfrew*

By whom made

William Simons & Co. Ltd. D.R.I. when made *1914*Registered Horse Power *43*

Owners

*The Admiralty*Port belonging to *✓*

Nom. Horse Power as per Section 28

43

Is Refrigerating Machinery fitted for cargo purposes

*no*Is Electric Light fitted *no*

ENGINES, &c.—Description of Engines

*Triple expansion*No. of Cylinders *3*No. of Cranks *3*Dia. of Cylinders *9 1/2", 15 1/2", 26"*Length of Stroke *18"*Revs. per minute *140*

Dia. of Screw shaft

as per rule *5 1/4"*Material of screw shaft *Scraper iron*Is the screw shaft fitted with a continuous liner the whole length of the stern tube *yes*

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 *length* 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 *no space*. If twoliners are fitted, is the shaft lapped or protected between the liners *✓*Length of stern bush *2' 1 1/2"*

Dia. of Tunnel shaft

as per rule *4.796*

Dia. of Crank shaft journals

as per rule *5.035*Dia. of Crank pin *5 1/4"*Size of Crank webs *8 1/4" x 3 1/2"*

Dia. of thrust shaft under

collars *5 1/4"*Dia. of screw *6' 9"*Pitch of Screw *8' 6"*No. of Blades *4*State whether moveable *no*Total surface *18 1/2"*No. of Feed pumps *1*Diameter of ditto *2 1/2"*Stroke *9"*Can one be overhauled while the other is at work *✓*No. of Bilge pumps *1*Diameter of ditto *2"*Stroke *9"*Can one be overhauled while the other is at work *✓*No. of Donkey Engines *one*Sizes of Pumps *5 1/4" x 3 1/2" x 5" duplex*

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

In Engine Room *one of 2"*In Holds, &c. *Lishhold, one of 2"**Also ejector drawing from all parts, and with separate suction to engine room*No. of Bilge Injections *1*sizes *2 1/2"*Connected to condenser, or to circulating pump *C.T.*Is a separate Donkey Suction fitted in Engine room & size *yes 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 *none*Are all connections with the sea direct on the skin of the ship *yes*Are they Valves or Cocks *both valves and 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*What pipes are carried through the bunkers *Sucs from Lishhold & Boiler feed tanks*How are they protected *strong wood casing*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 *none*Is it fitted with a watertight door *✓*worked from *✓*BOILERS, &c.—(Letter for record *(S)*)Manufacturers of Steel *✓*Total Heating Surface of Boilers *814 1/2*Is Forced Draft fitted *no*No. and Description of Boilers *one, cyl., multi, single ended*Working Pressure *180 lbs*Tested by hydraulic pressure to *360*Date of test *5. 12. 14*No. of Certificate *14011*Can each boiler be worked separately *✓*Area of fire grate in each boiler *30.5 1/2*

No. and Description of Safety Valves to

each boiler *2 direct spring*Area of each valve *3.94*Pressure to which they are adjusted *185 lbs*Are they fitted with easing gear *yes*Smallest distance between boilers or uptakes and bunkers or woodwork *about 6"*Mean dia. of boilers *10' 0"*Length *9'*

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 fixed 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

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 Press 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

2000-006400-0062

183007

IS A DONKEY BOILER FITTED? *No.*If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied:— *Two top & 2 bottom end bolts & nuts; 2 main bearing & 1 set coupling bolts & nuts; 1 set each, Air, Circulating, Feed, & Bidge pump valves; 1 each, main & donkey check valve; 1 safety valve spring; bolts & nuts assorted.*

The foregoing is a correct description,

JOHN LEWIS & SONS, LTD.

James J. Donald Secy

Manufacturers of Main Engines.

Dates of Survey while building { During progress of work in shops -- } *1914 Sept. 19 Oct. 9, 16, 29 Nov. 2, 5, 8, 14, 22 Dec. 6, 11, 12, 14, 22, 28*
 { During erection on board vessel -- } *1918 Jan. 4, 14, 19, 23, 28, 31 Feb. 6, 7, 8, 9, 12, 13*
 Total No. of visits *24*

Is the approved plan of main boiler forwarded herewith ☒" " " donkey " " " ☒

Dates of Examination of principal parts—Cylinders *16.29 1.14 6.12* Slides *16 70 14 7* Covers *16 70 14 7* Pistons *16 70 14 7* Rods *8.22 6.11 12 7*

Connecting rods *8.22 6.11 12 7* Crank shaft *14.11.14* Thrust shaft *12.14 12 7* Tunnel shafts ☒ Screw shaft *12 7 6.11.14 12* Propeller *6.11 12*

Stern tube *12 7 6.11 12* Steam pipes tested *31.1.18* Engine and boiler seatings *29.10.14* Engines holding down bolts *28.1.18*

Completion of pumping arrangements *6.2.18* Boilers fixed *28.1.18* Engines tried under steam *12.2.18*

Completion of fitting sea connections *29.12.14* Stern tube *28.12.14* Screw shaft and propeller *29.12.14*

Main boiler safety valves adjusted *4.2.18* Thickness of adjusting washers *Pat 13/32 Starboard 3/8*

Material of Crank shaft *S.* Identification Mark on Do. *Y36 (DUN)* Material of Thrust shaft *S.* Identification Mark on Do. *115.A*

Material of Tunnel shafts ☒ Identification Marks on Do. ☒ Material of Screw shafts *S.* Identification Marks on Do. *1152.A*

Material of Steam Pipes *Copper, solid drawn 2 tone No* Test pressure *360 lbs per sq inch*

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.)

These Engines have been constructed under Special Survey, and in accordance with the Secretary's Letters, the Rules, and Admiralty specifications & plans. The materials, and workmanship are good. On completion, they together with the boiler (Glasgow Report No 37338 were properly fitted on board the vessel, and tried under steam with satisfactory results, and are now in good order, and in our opinion entitled to the record L.M.C. 2.18. in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. + L M C 2.18.

W.D.
21/2/18

Ridley Howell & Reginald Bain
Engineer Surveyors to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ *2* : : When applied for,
Special *classification* £ *6* : : *19.2.1918*
Donkey Boiler Fee ... £ *6* : : When received,
Travelling Expenses (if any) £ : : *10.4.1918*

Committee's Minute

FRI. 22 FEB. 1918

Assigned

MACHINERY CERTIFICATE
WRITTEN.

© 2020

Lloyd's Register
Foundation

Date of writing Rep
No. in Survey
Reg. Book.
on the

Master ☒

Engines made at

Boilers made at

Registered Horse

MULTITUB

(Letter for recor

Boilers *One*

No. of Certificat

safety valves to

Are they fitted u

Smallest distanc

Material of shel

Descrip. of rice

Top of plates o

rules *182*boiler *2 pla*

Description of lo

plates: Material

Top *8 x 7*. If

smallest part 1

Pitch of stays 1

Area supported

Lower back pla

Pitch of tubes 4

water spaces 1

girder at centre

Working pressu

separately -

holes - Pi

If stiffened with

Working pressu

Survey requ

No *2045*

Dates of Survey while building { During work on board

GENERAL

This boiler

approved

This boiler

Boiler now

Survey Fee

Travelling

Committee

Assigned