

Received at London Office

THU.-5 APR. 1917

Date of writing Report 3. 4. 1917 When handed in at Local Office 4. 4. 1917

Port of Lym

No. in Survey held at Lym  
Reg. Book.

Date, First Survey 29. 3. 16

Last Survey 27. 3. 1917

(Number of Visits 27)

on the Sloop "William Poulton"

Tons { Gross 29.32  
Net 18.34

Master Charles Green

Built at Lym

By whom built J. Cran &amp; Co

When built 1917

Engines made at Lym

By whom made J. Cran &amp; Co

when made 1917

Boilers made at Walsby

By whom made Lindsay Burnett &amp; Co

when made 1917

Registered Horse Power 82

Owners Alexander Irving &amp; Co

Port belonging to Liverpool

Nom. Horse Power as per Section 28 105

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

## ENGINES, &amp;c.—Description of Engines

Compound

No. of Cylinders 2

No. of Cranks 2

Dia. of Cylinders 21. 44

Length of Stroke 27

Revs. per minute 116

Dia. of Screw shaft

as per rule 9. 26

Material of Iron

Is the screw shaft fitted with a continuous liner the whole length of the stern tube No

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

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

Water tight and outside

Length of stern bush 41

Dia. of Tunnel shaft

as per rule 8. 33

Dia. of Crank shaft journals

as per rule 8. 74

Dia. of Crank pin 9 1/2

Size of Crank webs 17 3/4 x 6 1/2

Dia. of thrust shaft under

collars 9 3/8

Dia. of screw 10. 0

Pitch of Screw 12. 0

No. of Blades 4

State whether moveable No

Total surface 36 sq ft

No. of Feed pumps 2

Diameter of ditto 2 1/2

Stroke 15

Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2

Diameter of ditto 2 1/4

Stroke 15

Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2

Sizes of Pumps 6 1/2 x 6, 4 1/2 x 4 x 5

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

In Engine Room 2 1/2 x 2

In Holds, &amp;c. 1 from Cabin 1 after Cabin each 2

No. of Bilge Injections 1

sizes 4

Connected to condenser or to circulating pump Yes

Is a separate Donkey Suction fitted in Engine room &amp; 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 Yes

Are all connections with the sea direct on the skin of the ship Yes

Are they Valves or Cocks Yes

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 Steam Pipes

How are they protected And Insulated

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

Dates of examination of completion of fitting of Sea Connections 21/11/16

of Stern Tube 21/11/16

Screw shaft and Propeller 28/11/16

Is the Screw Shaft Tunnel watertight Yes

Is it fitted with a watertight door Yes

worked from Upper platform

## BOILERS, &amp;c.—(Letter for record)

Manufacturers of Steel in Walsby Report 36605 attached

Total Heating Surface of Boilers 1850 sq ft

Is Forced Draft fitted Yes

No. and Description of Boilers One single ended

Working Pressure 130 lbs

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler 66.5 sq ft

No. and Description of Safety Valves to

each boiler 2 Spring valves

Area of each valve 9.6 sq in

Pressure to which they are adjusted 135 lbs

Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 11

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

Diameter 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

Diameter 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

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

If not, state whether, and when, one will be sent?

Is a Report also sent on the Hull of the Ship?

Lloyd's Register



IS A DONKEY BOILER FITTED? *NO* ✓

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— *Two top end, two bottom end connecting rod bolts and nuts, two main bearing bolts, one set connecting bolts, one set feed and bilge pump valves, assorted bolts and nuts, Loos of various sizes.*

The foregoing is a correct description,

*John Grant & Co*

Manufacturer.

Dates of Survey while building { During progress of work in shops -- } *1916 Mar 29, 31, May 9, June 8, 15, July 4, 13, 25, Aug 11, Sept 4, 21, Oct 4, 6, 10, 18, 19, 23, 24, Nov 14, 21, 22, 28.*  
{ During erection on board vessel -- } *Dec 1, 1917, Jan 15, Mar 12, 23, 27.*  
Total No. of visits *27.*

Is the approved plan of main boiler forwarded herewith *yes* ✓

" " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders *5/7 & 23/10/16* Slides *12/7 & 19/10/16* Covers *5/7 & 4/10/16* Pistons *5/7 & 4/10/16* Rods *29/3 & 19/10/16*  
Connecting rods *8/6 & 21/9/16* Crank shaft *9/5 & 14/11/16* Thrust shaft *9/5 & 14/11/16* Tunnel shafts *8/6 & 14/11/16* Screw shaft *8/6 & 14/11/16* Propeller *8/6 & 21/9/16*  
Stern tube *11/8 & 4/10/16* Steam pipes tested *12/3/17 & 23/3/17* Engine and boiler seatings *12/3/17* Engines holding down bolts *12/3/17*

Completion of pumping arrangements *27/3/17* Boilers fixed *12/3/17* Engines tried under steam *27/3/17*

Main boiler safety valves adjusted *27/3/17* Thickness of adjusting washers *10 1/2" 5 1/2"*

Material of Crank shaft *Stl* Identification Mark on Do. *4350 GAN* Material of Thrust shaft *Stl* Identification Mark on Do. *4350 GAN*

Material of Tunnel shafts *Iron* Identification Marks on Do. *4350 GAN* Material of Screw shafts *Iron* Identification Marks on Do. *4350 GAN*

Material of Steam Pipes *Copper* ✓ Test pressure *260 lbs* ✓

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 *92nd Alexander* ✓

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

*The machinery of this vessel has been built under special survey. The materials and workmanship are sound and good and under the vessel eligible in my opinion to have used of L.M.C. 3.17.*

It is submitted that  
this vessel is eligible for  
THE RECORD. + LMC 3.17.

The amount of Entry Fee ... £ *2* : : When applied for, *4.4.1917*  
Special *15.15* : :  
Donkey Boiler Fee ... £ *6.3* : :  
Travelling Expenses (if any) £ *9.12* : : When received, *10/4/17*

Committee's Minute

Assigned

WED. 11 APR. 1917

+ L.M.C. 3.17

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Foundation

MACHINERY CERTIFICATE  
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