

REPORT ON MACHINERY.

No. 9380

Received by London Office

16 JUL 1925

Date of writing Report

When handed in at Local Office

Port of

Belfast.

No. in Survey held at
Reg. Book.

Date First Survey

13-18-24

Last Survey

July 15th 1925

on the

New Steel Y.S.S. Imvruha

(No. 102)

(Number of Visits)

Gross

Net

Tons

Master

Built at

Belfast

By whom built

Harland & Wolff Ltd

When built

1925

Engines made at

Glasgow

By whom made

A & J Inglis Ltd

when made

1925

Boilers made at

Belfast

By whom made

Harland & Wolff Ltd

when made

1925

Registered Horse Power

Owners

Lago Shipping Co Ltd

Port belonging to

London

Nom. Horse Power as per Section 28

196

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

ENGINES, &c. Description of Engines

Twin Triple Expansion

No. of Cylinders

No. of Cranks

Dia. of Cylinders

13 1/2 x 13 1/2 x 36

Length of Stroke

24

Revs. per minute

125

Dia. of Screw shaft

as per rule

Material of

Steel

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

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 two

liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush

3' 0" aft 1' 9" fwd

Dia. of Tunnel shaft

as per rule

6.85

Dia. of Crank shaft journals

as per rule

4.19

Dia. of Crank pin

as per rule

Size of Crank webs

4 1/2 x 4 1/2

collars

as fitted

None

Dia. of screw

as fitted

4.19

Dia. of Crank pin

as per rule

Size of Crank webs

4 1/2 x 4 1/2

Pitch of Screw

9' 6"

No. of Blades

4

State whether moveable

No

Total surface

28 ft each propeller

No. of Feed pumps

2

Diameter of ditto

2 1/2"

Stroke

13 1/2"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

2 1/2"

Stroke

13 1/2"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

6

Sizes of Pumps

1 1/2" Ball Valve 1 1/2" x 1 1/2"

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

2 1/2" Ball Valve 1 1/2" x 1 1/2"

In Engine Room

1 @ 3 1/2" dia 1 @ 2 1/2" dia 2 @ 1 1/2" dia 2 @ 1 1/2" dia

In Holds, &c.

1 @ 3 1/2" dia 1 @ 2 1/2" dia 2 @ 1 1/2" dia 2 @ 1 1/2" dia

In Holds, &c.

1 @ 3 1/2" dia 1 @ 2 1/2" dia 2 @ 1 1/2" dia 2 @ 1 1/2" dia

No. of Bilge Injections

7

No. of Bilge Injections

7

Connected to condenser, or to circulating pump

CR

Is a separate Donkey Suction fitted in Engine room & size

Yes

3 1/2"

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 fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Yes

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

None

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

Yes

Is it fitted with a watertight door

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IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

✓

SPARE GEAR. State the articles supplied:—Two each bolts & nuts for top & bottom ends & main bearings. One set coupling bolts. One set of valves for each donkey pump. 2 sets feed & discharge pump valves. One set packing rings for H.P. & L.P. pistons. One top end & one bottom end connecting rod bush. 2 Ecc. straps. One pair of applicator braces of each size. 2 Condenser tubes one air & one air & oil bucket rod & nut complete & set valves for each air & oil pump. One set escape valves. Springs. One propeller shaft & 2 C.T. propellers. 1 set of 58 springs. One set valve seats for B.H. valves. Oil fuel burner & 18 tips. One suction & delivery filter (or) basket. Two thermometers &c. Quantity of assorted bolts & nuts & rivets.

The foregoing is a correct description, (Engines not included).

For HARLAND AND WOLFF, LIMITED,

Harland & Wolff

Manufacturers.

Dates of Survey while building { During progress of work in shops -- Dec 13 Jan 25-8-14-23-30 Feb 2-6 Mar 6-12 Apr 1-6-7-8-21-22-24-25-30
During erection on board vessel -- May 7-8-11-14-15-16-26-28 Jun 24-10-12-15-16-25-30 July 6-15
Total No. of visits 34.

Is the approved plan of main boiler forwarded herewith to Main Steam Pipes, Bulge, Ball, & other oil fuel pipes? H in all.

Dates of Examination of principal parts—Cylinders 11-5-25 Slides 21-5-25 Covers 14-5-25 Pistons 1-6-25 Rods 1-6-25
Connecting rods 14-5-25 Crank shaft 14-5-25 Thrust shafts 14-5-25 Tunnel shafts None Screw shafts 4-5-25 Propellers 4-5-25
Stern tubes 4-5-25 Steam pipes tested 12-6-25 & 15-6-25 Engine and boiler seatings 11-5-25 Engines holding down bolts 18-6-25
Completion of pumping arrangements 18-6-25 Boilers fixed 18-6-25 Engines tried under steam 20-6-25
Completion of fitting sea connections 11-5-25 Stern tube 11-5-25 Screw shaft and propeller 14-5-25
Main boiler safety valves adjusted 18-6-25 Thickness of adjusting washers 70 lb P 48 6 3/8, 50 lb P 48 5 1/16
Material of Crank shaft Steel Identification Mark on Do. 407 LCD Material of Thrust shaft Steel Identification Mark on Do. 910 WB.
Material of Tunnel shafts None Identification Marks on Do. ✓ Material of Screw shafts Steel Identification Marks on Do. 911 WB.
Material of Steam Pipes Solid drawn Copper. ✓ Test pressure 400 lbs. ✓
Is an installation fitted for burning oil fuel Yes. ✓ 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 Yes. ✓ If so, state name of vessel Y.S.S. Inverlay etc.

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

The Machinery of this vessel has been built under Special Survey, materials & workmanship good. Hydraulic tests satisfactory. The whole of the Machinery has been satisfactorily installed & fixed in the vessel & was tried under steam & is in good & safe working condition & eligible in my opinion to be classed & have records. ✱ LMC 7-25.
Tail shafts C.L. Electric Light. Fitted for oil fuel. 7-25 Flash Point above 150°F in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. + LMC 7-25. CL.

Fitted for oil fuel 7-25. F.P. above 150°F.

The amount of Entry Fee ... £ 29:8 0: When applied for, 19
Special Fee ... £ 10:0 0: When received, 25
ELECTRIC LIGHT
Donkey Boiler Fee ... £ 10:0 0:
Travelling Expenses (if any) £

Committee's Minute

Assigned

CERTIFICATE WRITTEN

+ LMC 7-25. CL

Fitted for oil fuel 7-25
F.P. above 150°F

William Butts

Engineer Surveyor to Lloyd's Register of Shipping.



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