

REPORT ON MACHINERY

No. 36411

NOV 1 - NOV 1916

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of Glasgow

No. in Survey held at

Glasgow

Date, First Survey 25-2-14

Last Survey 21st October 1916

Reg. Book

on the Twin Screw "GLENAMOY" (oil Eng)

(Number of Flats 137)

Master

Built at Irvine

By whom built Harland & Wolff Ltd (Glasgow)

Gross 7269.00
Net 4655.97
When built 1916

Engines made at

Glasgow

By whom made

Burmeister & Wainald (No 9039)

when made 1916

Boilers made at

Annan

By whom made

Cochran & Co

when made 1916

Registered Horse Power

Owners

Glen Line (McGregor & Co) Ltd Port belonging to Glasgow

Nom. Horse Power as per Section 28

655

Is Refrigerating Machinery fitted for cargo purposes

Yes

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines

S. S. Diesel 4 stroke cycle

No. of Cylinders 12

No. of Cranks 12

Dia. of Cylinders

670 ²/₁₆ in 26 ³/₈ in

Length of Stroke

100 ¹/₁₆ in 39 ³/₈ in

Revs. per minute 110

Dia. of Screw shaft

as per rule 328 ¹/₁₆ in

as fitted 369 ¹/₁₆ in

Material of screw shaft 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

Continuous 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

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

Length of stern bush 5'-4"

Dia. of Tunnel shaft

as per rule 306 ¹/₁₆ in

as fitted 330 ¹/₁₆ in

Dia. of Crank shaft journals

as per rule 390 ¹/₁₆ in

as fitted 422 ¹/₁₆ in

Dia. of Crank pin

422 ¹/₁₆ in

Size of Crank webs 590 x 198

collars 350 ¹/₁₆ in

Dia. of screw 13-6"

Pitch of Screw 12-0"

No. of Blades 3

State whether moveable

Yes

Total surface

54 sq ft

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2 (Double)

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

1

Sizes of Pumps

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

2

3"

3"

3"

3"

In Engine Room

Two 3 1/2"

Two 5"

In Holds, &c.

No. 1 hold

Two 3 1/2"

No. 2 hold

Two 3 1/2"

Two 3 1/2"

No. 3 hold

Two 3 1/2"

No. 4 hold

Three 3 1/2"

No. 5 hold

Three 3 1/2"

Tunnel wells

Two 3 1/2"

Two 3 1/2"

No. of Bilge Injections

Two sizes

5

Connected to condenser, or to circulating pumps

Yes

Is a separate Donkey Suction fitted in Engine room

Yes

Size

5"

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

Done

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

Yes

Are they Valves or Cocks

Both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stowage plates

Yes

Are the Discharge Pipes above or below the deep water line

Below

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

Dates of examination of completion of fitting of Sea Connections

20-9-16

of Stern Tube

20-9-16

Screw shaft and Propeller

20-9-16

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

Yes

worked from upper deck

Yes

How are they protected

None

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

Yes

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

an reservoir see Gls Rpt No 35504

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

an reservoir

Two, cylindrical

Working Pressure

294 lb

Tested by hydraulic pressure to

588 lb

Date of test

4-10-15

No. of Certificate

13256

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

None

No. and Description of Safety Valves to

each boiler

Two spring loaded

Smallest distance between boilers or uptakes and bunkers or woodwork

Area of each valve

7.07 sq ft

Pressure to which they are adjusted

294 lb

Are they fitted with easing gear

No

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

Working pressure of shell by rules

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

Thickness of plates

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

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

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

Yes

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Yes

Working pressure of end plates

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Yes

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Yes

Working pressure of end plates

Area of safety valves to superheater

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Yes

VERTICAL DONKEY BOILER

See separate Glasgow Report No 35941
Manufacturers of Steel Stewart & Lloyds Ltd

No. *one* Description *Cochran*
Made at *annan* By whom made *Cochran & Co* When made *1916* Where fixed *after end of engine room*
Working pressure *100* Tested by hydraulic pressure to *200 lb* Date of test *18-4-16* No. of Certificate *3398* Fire grate area *15.7 sq ft* Description of Safety Valves *2, Spring loaded* No. of Safety Valves *Two* Area of each *4.9 sq ft* Pressure to which they are adjusted *100 lb* Date of adjustment *17-10-16*
If fitted with casing gear *Yes* If steam from main boilers can enter the donkey boiler *-* Dia. of donkey boiler *-* Length *-*
Material of shell plates *-* Thickness *-* Range of tensile strength *-* Descrip. of riveting long. seams *-*
Dia. of rivet holes *-* Whether punched or drilled *-* Pitch of rivets *-* Lap of plating *-* Per centage of strength of joint *-*
Working pressure of shell by rules *-* Thickness of shell crown plates *-* Radius of do. *-* No. of stays to do. *-* Dia. of stays *-*
Diameter of furnace Top *-* Bottom *-* Length of furnace *-* Thickness of furnace plates *-* Description of joint *-*
Working pressure of furnace by rules *-* Thickness of furnace crown plates *-* Radius of do. *-* Stayed by *-*
Diameter of uptake *-* Thickness of uptake plates *-* Thickness of water tubes *-* Dates of survey *-*

SPARE GEAR. State the articles supplied:— See separate list attached hereto ✓

The foregoing is a correct description,
FOR THE BURMEISTER AND WAIN (DIESEL SYSTEM)
OIL ENGINE COMPANY, LIMITED. Manufacturer.

F. E. Kelbeck General Manager
Dates of Survey while building
During progress of work in shops: 1916 26.8.16, 27.8.16, 28.8.16, 29.8.16, 30.8.16, 31.8.16, 1.9.16, 2.9.16, 3.9.16, 4.9.16, 5.9.16, 6.9.16, 7.9.16, 8.9.16, 9.9.16, 10.9.16, 11.9.16, 12.9.16, 13.9.16, 14.9.16, 15.9.16, 16.9.16, 17.9.16, 18.9.16, 19.9.16, 20.9.16, 21.9.16, 22.9.16, 23.9.16, 24.9.16, 25.9.16, 26.9.16, 27.9.16, 28.9.16, 29.9.16, 30.9.16, 1.10.16, 2.10.16, 3.10.16, 4.10.16, 5.10.16, 6.10.16, 7.10.16, 8.10.16, 9.10.16, 10.10.16, 11.10.16, 12.10.16, 13.10.16, 14.10.16, 15.10.16, 16.10.16, 17.10.16, 18.10.16, 19.10.16, 20.10.16, 21.10.16, 22.10.16, 23.10.16, 24.10.16, 25.10.16, 26.10.16, 27.10.16, 28.10.16, 29.10.16, 30.10.16, 31.10.16, 1.11.16, 2.11.16, 3.11.16, 4.11.16, 5.11.16, 6.11.16, 7.11.16, 8.11.16, 9.11.16, 10.11.16, 11.11.16, 12.11.16, 13.11.16, 14.11.16, 15.11.16, 16.11.16, 17.11.16, 18.11.16, 19.11.16, 20.11.16, 21.11.16, 22.11.16, 23.11.16, 24.11.16, 25.11.16, 26.11.16, 27.11.16, 28.11.16, 29.11.16, 30.11.16, 1.12.16, 2.12.16, 3.12.16, 4.12.16, 5.12.16, 6.12.16, 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