

REPORT ON MACHINERY.

No. 46212

Received at London Office

23 DEC 1926

Date of writing Report

19

When handed in at Local Office 24-12-1926 Port of Glasgow

No. in Survey held at
Reg. Book.

Glasgow

Date, First Survey 2nd June 1926 Last Survey 23-12-1926

(Number of Visits 52)

on the

Steel Screw Steamer "GOLETA"

Master

Built at Buntisland

By whom built Buntisland S.B.C. (S.N. 134)

Tons

Gross 2473

Net 1484.91

When built 1926

Engines made at

Glasgow

By whom made

David Rowan & Co. Ld. (N^o 824)

when made

1926

Boilers made at

Glasgow

By whom made

David Rowan & Co. Ld. (N^o 824)

when made

1926

Registered Horse Power

Owners

La Tunisienne S.N. Co. Ld.

Port belonging to

Swansea

Nom. Horse Power as per Section 28

259

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

22-36-60

Length of Stroke

39"

Revs. per minute

Dia. of Screw shaft

as per rule 12.03

Material of

steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

yes

No O.G.

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

yes

If two

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

Length of stern bush

4'-1 1/2"

Dia. of Tunnel shaft

as per rule 10.76

Dia. of Crank shaft journals

as per rule 11.298

Dia. of Crank pin

11 1/2"

Size of Crank webs

18"x7 1/4"

Dia. of thrust shaft under

collars

11 3/4"

Dia. of screw

15-3"

Pitch of Screw

16'-6"

No. of Blades

4

State whether moveable

no

Total surface

73.6 sq ft

No. of Feed pumps

2

Diameter of ditto

3 1/2"

Stroke

21"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

3 1/2"

Stroke

21"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

3

Sizes of Pumps

8 1/2"x8"

8 1/2"x8"

5 1/2"x6"

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

In Engine Room

3 @ 2 1/2"

In Holds, &c.

N-1-2 @ 2 1/2" N-2-2 @ 3" N-3-2 @ 3"

No. of Bilge Injections

1

size

4 1/2"

Connected to condenser, to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

1-4"

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

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

yes

Are they Valves or Cocks

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

none

How are they protected

✓

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

yes

worked from

Top Platform

OILERS, &c.—(Letter for record (5))

Manufacturers of Steel Plates - Mannesmann Werke (Schulz-Knandt)

Stap - Lanarkshire Steel Co

2SB

Total Heating Surface of Boilers

4200 sq ft

Is Forced Draft fitted

no

No. and Description of Boilers

Two, single ended

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

6-12-26

No. of Certificate

17244

Can each boiler be worked separately

✓

Area of fire grate in each boiler

57.76 sq ft

No. and Description of Safety Valves to

each boiler

two direct spring

Area of each valve

7.06 sq ft

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

3 feet

Mean dia. of boilers

14'-9"

Length

10'-6"

Material of shell plates

steel

Thickness

1 1/4"

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

W.R. lap

ong. seams

W.B.S. TR

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

8 3/4"

Lap of plates or width of butt straps

18 3/4"

Per centages of strength of longitudinal joint

88.5

Working pressure of shell by rules

180

Size of manhole in shell

19 1/2" x 15 1/2"

10' x 2'-6" x 1 1/2" flanged 3" to 16' x 12"

Size of compensating ring

manhole

No. and Description of Furnaces in each boiler

3 Deighton

Material

steel

Outside diameter

43 3/4"

Length of plain part

top

bottom

Thickness of plates

crown

3 5/8"

Description of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

184

Combustion chamber plates: Material

steel

Thickness: Sides

3 3/8"

Back

3 1/2"

Top

3 3/8"

Bottom

3 3/8"

Pitch of stays to ditto: Sides

10 3/8" x 9 1/2"

Back

9 1/4" x 8 1/8"

Top

10 3/8" x 9 1/2"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

182

Material of stays

steel

Area at smallest part

1.73 sq ft

Area supported by each stay

82.20 sq ft

Working pressure by rules

185

End plates in steam space:

Material

steel

Thickness

1 1/4"

Pitch of stays

20 1/2" x 19 3/4"

How are stays secured

W.N.

Working pressure by rules

180

Material of stays

steel

Area at smallest part

5.94 sq ft

Area supported by each stay

362.0 sq ft

Working pressure by rules

181

Material of Front plates at bottom

steel

Thickness

3 1/2"

Material of Lower back plate

steel

Thickness

3 1/4"

Greatest pitch of stays

13 1/8" x 8 1/8"

Working pressure of plate by rules

181

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2" x 4 3/8"

Material of tube plates

steel

Thickness: Front

3 1/2"

Back

3 3/8"

Mean pitch of stays

10"

Pitch across wide water spaces

13 1/8" x 8 1/8"

Working pressures by rules

183

Girders to Chamber tops: Material

steel

Depth and

thickness of girder at centre

7 1/4" x 7 1/8" (20)

Length as per rule

32 3/4"

Distance apart

9 1/2"

Number and pitch of stays in each

2 @ 10 3/8"

Working pressure by rules

181

Steam dome: description of joint to shell

none

% 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

none

Date of Approval of Plan

Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

Lloyd's Register

Foundation

W42-0014

IS A DONKEY BOILER FITTED?

yes

If so, is a report now forwarded?

yes

SPARE GEAR. State the articles supplied:—

2 connecting rod bolts and nuts, top end, 2 connecting rod bottom end bolts and nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set of fuel and bilge pump valves, 1 set of piston rings, a quantity of assorted bolts and nuts, iron of various sizes. Spare propeller. A number of condenser tubes. H.P. piston valve. Several boiler tube stoppers.

The foregoing is a correct description,

For David Rowan & Co. Ltd }
Archd. N. Grierson } Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1925 June 2-9-15-23-31 July 31 Aug 4-12-18-11-24 Sep 2-4-9-10-14-22-24-25 Oct 5-13-15-16-22-28-30
During erection on board vessel - - - Nov 4-10-12-23-24 Dec 9-14-21-22 (1926) Jan 29 Feb 9-23 Mar 8-18 Sep 13 Nov 3-10-11-16-26-30 Dec 3-6-15-16
Total No. of visits 52
Fitting out 1926 Dec 8-22-27 Jan 17 Feb 2-11-14-15-26 March 10-14
Is the approved plan of main boiler forwarded herewith yes
" " " donkey " " " yes

Dates of Examination of principal parts—Cylinders 31-7-25 Slides 15-10-25 Covers 4-9-25 Pistons 25-9-25 Rods 13-10-25
Connecting rods 7-9-24 Crank shaft 4-9-25 Thrust shaft 10-9-25 Tunnel shafts 10-9-25 Screw shaft 26-11-26 Propeller 10-11-26
Stern tube 16-11-26 Steam pipes tested at Glasgow Engine and boiler seatings 2-2-27 Engines holding down bolts 1-3-27
Completion of pumping arrangements 14-3-27 Boilers fixed 26-2-27 Engines tried under steam 22-2-27
Completion of fitting sea connections 17-1-27 Stern tube 8-12-26 Screw shaft and propeller 22-12-26, 17-1-27
Main boiler safety valves adjusted 4-3-27 Thickness of adjusting washers Pist 5 11/32 Stand 5 11/32 D.Bh. F 3/8 A 3/8
Material of Crank shaft I. Steel Identification Mark on Do. LLOYD'S NO 1204 L.S.D. 4-9-25 Material of Thrust shaft I. Steel Identification Mark on Do. LLOYD'S NO 1203 L.S.D. 10-9-25
Material of Tunnel shafts I. Steel Identification Marks on Do. LLOYD'S NO 824 L.S.D. 10-9-25 Material of Screw shafts I. Steel Identification Marks on Do. LLOYD'S NO 159 J.F.N. 26-11-26
Material of Steam Pipes Wootton (Main) Copper (Aux) Test pressure Main 540 lb. Auxiliary 360 lb.

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 yes

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.)

The materials and workmanship are good.

The machinery has been constructed under Special Survey in accordance with the Rules. It is about to be sent to Burntisland to be fitted in the vessel.

The machinery has been satisfactorily fitted in the vessel, tried under full working conditions and found satisfactory.

The machinery is now in a good and safe working condition and renders the vessel eligible in an opinion to have the notation + L.M.C 3.27

It is submitted that this vessel is eligible for THE RECORD. + L.M.C 3.27. CL.

18/3/27

The amount of Entry Fee ... £ 4 :
Special 4 fee ... £ 51 : -
Donkey Boiler Fee ... £ 12 : 17
Travelling Expenses (if any) £ :
When applied for, 27.12.26
When received, 29.12.26

S. Davis, A. Morris
Engineer Surveyor to Lloyd's Register of Shipping.

TUES. 29 MAR 1927

Committee's Minute GLASGOW 28 DEC 1926

Assigned Deferred.

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