

REPORT ON MACHINERY.

No. 24015

JUL 22 MAY 1906

Port of Glasgow

Received at London Office

No. in Survey held at

Glasgow

Date, first Survey

5 Sept 05

Last Survey

30 April 1906

g. Book.

on the

S. S. VISIGOTH

Tons

Gross

Net

ster

Built at

Dumbarton

By whom built

A. Mc Millan & Son

When built

1906

gines made at

Glasgow

By whom made

Dunsmuir & Jackson Ltd.

when made

1906

ilers made at

Glasgow

By whom made

do do

when made

1906

gistered Horse Power

Owners Joss Sons & CoPort belonging to Southampton

n. Horse Power as per Section 28

314

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

GINES, &c.—Description of Engines

Triple expansion - screw

No. of Cylinders

3

No. of Cranks

3

a. of Cylinders

23, 38 1/2, 64

Length of Stroke

45

Revs. per minute

70

Dia. of Screw shaft

as per rule 13.3

Material of screw shaft

iron

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

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

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

yes

Length of stern bush

7.6

a. of Tunnel shaft

as per rule 12.3

Dia. of Crank shaft journals

as per rule 12.3

Dia. of Crank pin

12.3

Size of Crank webs

8 3/8

Dia. of thrust shaft under

as per rule 12.3

Material of screw shaft

iron

lars

12 3/4

Dia. of screw

16.6

Pitch of Screw

17.9

No. of Blades

4

State whether moveable

yes

Total surface

90 sq. ft.

a. of Feed pumps

2

Diameter of ditto

4

Stroke

22

Can one be overhauled while the other is at work

yes

Can one be overhauled while the other is at work

yes

a. of Bilge pumps

2

Diameter of ditto

4

Stroke

22

Can one be overhauled while the other is at work

yes

Can one be overhauled while the other is at work

yes

a. of Donkey Engines

4

Sizes of Pumps

6 x 8 x 21 - Ballast6 x 4 1/4 x 6 - 11 x 11 x 11

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

4 1/2 x 3 x 6

In Holds, &c.

One 3 1/2 in after hold & tunnel well

Engine Room

Four 3 1/2 dia

Two 3 1/2 dia

in No. 1, 2, 3 & 4 holds.

a. of Bilge Injections

1

sizes

5

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room & size

yes 3 1/2

Are the roses in Engine room always accessible

yes

Are the sluices on Engine room bulkheads always accessible

none

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

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

yes

Are they Valves or Cocks

both

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

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

hat pipes are carried through the bunkers

none

How are they protected

yes

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

yes

the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

yes

utes of examination of completion of fitting of Sea Connections before launch of Stern Tube

do

Screw shaft and Propeller

do

the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

yes

worked from

top platform.

ILERS, &c.—(Letter for record (S))

Manufacturers of Steel

Hewlett, Hoyle & D. Colville Sons

tal Heating Surface of Boilers

4054

Is Forced Draft fitted

yes

No. and Description of Boilers

2 Single ended.

orking Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

16.1.06

No. of Certificate

7932

n each boiler be worked separately

yes

Area of fire grate in each boiler

45 sq. ft.

No. and Description of Safety Valves to

2 Patent Spring

Area of each valve

8.29

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear

yes

allest distance between boilers or uptakes and bunkers or woodwork

2.6

Mean dia. of boilers

13.6

Length

11.9

Material of shell plates

steel

ickness

1 1/8

Range of tensile strength

28 to 32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

double

g. seams

treble

Diameter of rivet holes in long. seams

1 3/16

Pitch of rivets

8 3/8

Lap of plates or width of butt straps

17 1/2

Material of shell plates

steel

centages of strength of longitudinal joint

87.4

Working pressure of shell by rules

184 lbs

Size of manhole in shell

16" x 12"

Material of shell plates

steel

e of compensating ring

McNeil

No. and Description of Furnaces in each boiler

3 Deighton

Material

steel

Outside diameter

3' 7"

No. of strengthening rings

yes

ngth of plain part

top

Thickness of plates

bottom

Description of longitudinal joint

welded

No. of strengthening rings

yes

Working pressure of furnace by the rules

190 lbs

Combustion chamber plates: Material

steel

Thickness: Sides

5/8

ch of stays to ditto: Sides

8 x 9

Back

8 1/2 x 8 1/2

Top

7 1/2 x 9 1/2

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

184 lbs

End plates in steam space:

steel

Material of stays

steel

aterial of stays

steel

Diameter at smallest part

1.76

Area supported by each stay

73.3

Working pressure by rules

192 lbs

End plates in steam space:

steel

Material of stays

steel

Thickness

1 1/4

ickness

13/16

Material of Lower back plate

steel

Thickness

2 1/2

Greatest pitch of stays

13 1/2 x 8 5/8

Working pressure of plate by rules

192 lbs

Material of stays

steel

Thickness: Front

3/16

meter of tubes

2 1/2

Pitch of tubes

3 5/8 x 3 5/8

Material of tube plates

steel

Thickness: Front

3/16

Back

1/16

Mean pitch of stays

7 1/4

Depth and

iron

ch across wide water spaces

13 1/2

Working pressures by rules

184 lbs

Girders to Chamber tops: Material

iron

Depth and

iron

Thickness of girder at centre

2 - 10 x 1

Length as per rule

2.10 3/4

VERTICAL DONKEY BOILER—Manufacturers of Steel ✓

No. One Description Single ended, see separate report attached to this
 Made at _____ By whom made _____ When made _____ Where fixed _____
 Working pressure _____ tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety
 Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____
 If fitted with easing gear _____ 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 _____ Rivets _____
 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 _____ Stayed by _____
 Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— Two top end & two bottom end connecting rod bolts, two main bearing bolts, one set of coupling bolts, one set of feed & bilge valves, etc.

The foregoing is a correct description,
pro Dunsmuir & Jackson
Jas. P. Adams Manufacturer.

Dates of Survey while building { During progress of work in shops— 1905: Sep 5, 19 Oct 9, 16, 22, 26, 30 Nov 9, 16, 21 Dec 14, 21, 26 1905: Jan 9, 16
 { During erection on board vessel— 24, 31 Feb 5, 8, 19, 20, 22 Mar 6, 15, 16 April 19, 30
 Total No. of visits 27

Is the approved plan of main boiler forwarded herewith yes

Dates not specifically noted.

Dates of Examination of principal parts—Cylinders ✓ Slides ✓ Covers ✓ Pistons ✓ Rods ✓
 Connecting rods ✓ Crank shaft ✓ Thrust shaft ✓ Tunnel shafts ✓ Screw shaft ✓ Propeller ✓
 Stern tube ✓ Steam pipes tested ✓ Engine and boiler seatings ✓ Engines holding down bolts ✓
 Completion of pumping arrangements ✓ Boilers fixed ✓ Engines tried under steam ✓
 Main boiler safety valves adjusted _____ Thickness of adjusting washers _____
 Material of Crank shaft steel Identification Mark on Do. see foregoing reports Material of Thrust shaft steel Identification Mark on Do. see foregoing reports
 Material of Tunnel shafts steel Identification Marks on Do. _____ Material of Screw shafts iron Identification Marks on Do. see foregoing reports
 Material of Steam Pipes iron Test pressure 540 lbs

General Remarks (State quality of workmanship, opinions as to class, &c. The materials & workmanship of this vessel's machinery are of good quality, it has been constructed under special survey, it has been tried under steam & found to be satisfactory. In my opinion it is eligible to be classed in the Register Book with the record of +LMC 5.06.

It is submitted that
 this vessel is eligible for
 THE RECORD ILMC 4.06 F.D.

Emil
23.5.06

J.L.S.
23.5.06

The amount of Entry Fee... £ 3 : : When applied for, 21 MAY 1906
 Special ... £ 25 . 14 : :
 Donkey Boiler Fee ... £ : : When received, 23 MAY 1906
 Travelling Expenses (if any) £ : : 23 MAY 1906

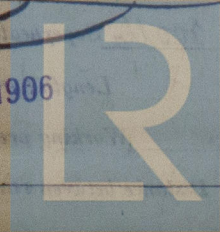
J.W. Dimmock
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute Glasgow 21 MAY 1906

JUN 12 1906

Assigned + LMC 4.06.

MACHINERY CERTIFICATE
 WRITTEN, 22-37-06



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