

REPORT ON MACHINERY.

No. 21,076

Port of

Hull

Received at London Office

MUN. 19 APR 1909

held at

Hull & Selby

Date, first Survey

Dec 9/08

Last Survey

Apr 6/1909

(Number of Visits 26)

S/Steamer CLAUDIUS

Built at

Selby

By whom built

Lochane & Sons

Tons

Gross 285

Net 126

When built

1909

Hull

By whom made

Amos & Smith Ltd

when made

5

By whom made

5

when made

5

Power

Owners Consolidated S. F. & Co. Ltd

Port belonging to

Grimsby

as per Section 28

87

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

Description of Engines

Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Length of Stroke

26

Revs. per minute

110

Dia. of Screw shaft

as per rule 7.84

Material of

Iron

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

Yes

Is the after end of the liner made water tight

If the liner is in more than one length are the joints burned

Yes

If the liner does not fit tightly at the part

ings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

Yes

If two

is the shaft lapped or protected between the liners

Length of stern bush

33

as per rule

6.76

Dia. of Crank shaft journals

as per rule

7.09

Dia. of Crank pin

7.5

Size of Crank webs

4.8 x 4.2

Dia. of thrust shaft under

Dia. of screw

9.9

Pitch of Screw

11.3

No. of Blades

4

State whether moveable

No

Total surface

34 sq

Revs

2

Diameter of ditto

27

Stroke

12

Can one be overhauled while the other is at work

Yes

Revs

2

Diameter of ditto

27

Stroke

12

Can one be overhauled while the other is at work

Yes

Engines

1

Sizes of Pumps

6 x 3 x 6

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

2-2 (Fore & Aft)

In Holds, &c.

4-2 (Forecastle, main hold, Fore

well, after hold well. 1 Green suction to all holds with discharge in hold.

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

ons with the sea direct on the skin of the ship

Yes

Are they Valves or Cocks

Both

efficiently 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

ted 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

carried through the bunkers

Hold suction

How are they protected

Wood casing

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

Yes

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

Yes

ination of completion of fitting of Sea Connections

S. 2. 09.

of Stern Tube

S. 2. 09.

Screw shaft and Propeller

S. 2. 09.

shaft Tunnel watertight

None

Is it fitted with a watertight door

Yes

worked from

&c. (Letter for record

S

Manufacturers of Steel

Phoenix & Westphalia

Surface of Boilers

1485 sq

Is Forced Draft fitted

No

No. and Description of Boilers

1. S.E. Multitubular

asure

180 lbs.

Tested by hydraulic pressure to

360 lbs.

Date of test

19. 3. 09.

No. of Certificate

1695.

be worked separately

Yes

Area of fire grate in each boiler

41. 69 sq

No. and Description of Safety Valves to

Spring loaded

Yes

Area of each valve

3. 97

Pressure to which they are adjusted

185 lbs.

Are they fitted with easing gear

Yes

between boilers or uptakes and bunkers or woodwork

7.5

Mean dia. of boilers

13.6

Length

10.6

Material of shell plates

Steel

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

ST Lap

Diameter of rivet holes in long. seams

1.8

Pitch of rivets

7.86

Gap of plates or width of butt straps

16.2

strength of longitudinal joint

85.7

Working pressure of shell by rules

180

Size of manhole in shell

17 x 13

ating ring

4 x 3.1 x 1.3

No. and Description of Furnaces in each boiler

2 Deighton

Material

Steel

Outside diameter

4.1 x 1.3

n part

top

Thickenss of plates

3.5

Description of longitudinal joint

Welded

No. of strengthening rings

Yes

are of furnace by the rules

202

Combustion chamber plates: Material

Steel

Thickenss: Sides

2.3

Back

4.6

Top

4.6

Bottom

2.3

to ditto: Sides

10 x 9

Back

9.2 x 9.2

Top

8.2 x 8.2

If stays are fitted with nuts or riveted heads

Yes

Working pressure by rules

182

ys

Steel

Diameter at smallest part

1.2

Area supported by each stay

90 sq

Working pressure by rules

206

Thickness

1.6

Pitch of stays

17.2 x 17.2

How are stays secured

Welded

Working pressure by rules

182

Material of stays

Steel

smallest part

6.1 x 6.1

Area supported by each stay

293 sq

Working pressure by rules

216

Material of Front plates at bottom

Steel

Material of Lower back plate

Steel

Thickenss

3.2

Greatest pitch of stays

16 x 7.5

Working pressure of plate by rules

181

es

3.2

Pitch of tubes

5.8 x 4.2

Material of tube plates

Steel

Thickenss: Front

2.9

Back

7

Mean pitch of stays

12.4

wide water spaces

17.2

Working pressures by rules

183

Girders to Chamber tops: Material

Iron

order at centre

9 x 1.2

Length as per rule

2.8

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____

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 _____ Plates _____

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, two bottom and connecting rod bolts, one main bearing bolts, one set of coupling bolts, one set of feed & high pump valves, one set of air & circulating pump valves, one main & one donkey feed check valve, assorted bolts & nuts etc.*

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

Manufacturer.

W. L. Hide

Dates of Survey while building { During progress of work in shops - 1908: Dec 9, 11, 24. 1909: Jan 27, 15, 19, 20, 27, Feb 3, 5, 6, 10, 16, 25, Mar 4, 6, 11, 13, 16. During erection on board vessel - Mar 19, 23, 27, Apr 1, 5, 6. Total No. of visits 26

Managing Director

Is the approved plan of main boiler forwarded herewith *Yes*

Dates of Examination of principal parts—Cylinders 11.3.09. Slides 23.3.09. Covers 11.3.09. Pistons 23.3.09. Rods 12.3.09. Connecting rods 13.3.09. Crank shaft 23.3.09. Thrust shaft 23.3.09. Tunnel shafts ✓. Screw shaft 3.2.09. Propeller 3.2.09. Stern tube 3.2.09. Steam pipes tested 30.3.09. Engine and boiler seatings 5.2.09. Engines holding down bolts 27.3.09. Completion of pumping arrangements 6.4.09. Boilers fixed 1.4.09. Engines tried under steam 1.4.09. Main boiler safety valves adjusted 1.4.09. Thickness of adjusting washers *P 4 5 5 6*. Material of Crank shaft *Steel*. Identification Mark on Do. *23.3.09*. Material of Thrust shaft *Steel*. Identification Mark on Do. *23.3.09*. Material of Tunnel shafts ✓. Identification Marks on Do. ✓. Material of Screw shafts *Iron*. Identification Marks on Do. *2.2.09*. Material of Steam Pipes *Solid drawn Copper*. Test pressure *360 lbs.*

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery & boiler of this vessel have been constructed under Special Survey, are of good material & workmanship & have been fitted & secured on board in accordance with the Rules. They are now in good working condition & eligible in my opinion to have record of T. L. M. C. 4-09 in the Register Book.*

It is submitted that this vessel is eligible for THE RECORD.

+ LMC. 4.09

J. R. R.

H. G. D.

19.4.09

19/4/09

The amount of Entry Fee. £ 1 : 00. When applied for, 17.4.09. Special £ 13 : 10. When received, 29/4/09. Donkey Boiler Fee £ : : Travelling Expenses (if any) £ : 8 2.

Committee's Minute

Assigned

TUES. 20 APR 1909

+ LMC 4.09

MACHINERY CERTIFICATE WRITTEN



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