

Port of

Belfast

Received at London Office

JAN. 27 FEB 1906

No. in Survey held at

Belfast

Date, first Survey

Last Survey

22 2 19

Reg. Book.

on the

S.S. "Nieuw Amsterdam"

(Number of Visits)

Gross 16913

Net 15887

When built 1906

Master

Built at

Belfast

By whom built

Harland & Wolff L^{td}

Engines made at

Belfast

By whom made

Harland & Wolff L^{td}

when made 1906

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Netherlands-American Steam Port belonging to Rotterdam

Nom. Horse Power as per Section 28

1767

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines

Loren-Loren Quadruple Expansion

of Cylinders

8

No. of Cranks 8

Dia. of Cylinders

29'-4 1/2'-61'-8 1/2'

Length of Stroke

60

Revs. per minute

76

Dia. of Screw shaft

as per rule 17.43

Material of

S. 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

Yes

Length of stern bush

73"

Dia. of Tunnel shaft

as per rule 15.92

Dia. of Crank shaft journals

as per rule 14.72

Dia. of Crank pin

18"

Size of Crank webs

24 x 12 1/2"

of thrust shaft under

collars

174"

Dia. of screw

18'-6"

Pitch of screw

23'-0"

No. of blades

8

State whether moveable

Yes

Total surface

84 1/2 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

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

Sizes of

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

In Engine Room

8-3 1/2"

4-3"

4-2 1/2"

In Holds, &c.

14-3 1/2"

8-3"

1-2 1/2"

No. of bilge injections

2

sizes

11"

Connected to condenser, or to circulating pump

Pump

Is a separate donkey suction fitted in Engine room & size

Yes-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

None

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 stokehold 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

Tank & Bilge suction

How are they protected

Plated tunnel

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

When were stern tube, propeller, screw shaft, and all connections examined in dry dock

Before launching

Is it fitted with a watertight door

Yes

Is it fitted with a watertight door

Yes

worked from

Above main deck level

Level

Level

Level

Level

Level

Level

BOILERS, &c.—

(Letter for record)

S

Total Heating Surface of Boilers

31801 sq ft

Is forced draft fitted

No

No. and Description of Boilers

Loren-Douglas End Cylindrical

Working Pressure

215 lbs

Tested by hydraulic pressure to

430 lbs

Date of test

3-7-05

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

118 sq ft

No. and Description of safety valves to

each boiler

4-1/2"

Pressure to which they are adjusted

215 lbs

Smallest distance between boilers or uptakes and bunkers or woodwork

4 ft

Mean dia. of boilers

15'-0"

Length

19'-0"

Material of shell plates

Steel

Thickness

1/2"

Range of tensile strength

29-32

Are they welded or flanged

No

Descrip. of riveting: cir. seams

Lap Rivet

long. seams

Butt Rivet

Steel

Diameter of rivet holes in long. seams

1/2"

Pitch of rivets

10"

Lap of plates or width of butt straps

22 1/2"

Per centages of strength of longitudinal joint

rivets 93.4

plate 84.0

Working pressure of shell by rules

247 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

McNeill

No. and Description of Furnaces in each boiler

6-Morris

Material

Steel

Outside diameter

47 1/2"

Length of plain part

top 6"

Thickness of plates

crown 3/4"

Description of longitudinal joint

Weld

No. of strengthening rings

37

No. of strengthening rings

37

No. of strengthening rings

37

Working pressure of furnace by the rules

241 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

5"

Back

Top 3/4"

Bottom 3/4"

Pitch of stays to ditto: Sides

8" x 7 1/2"

Pitch of stays to ditto: Back

8" x 7 1/2"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

224 lbs

Material of stay

Steel

Diameter at smallest part

1 1/2"

Area supported by each stay

6 1/8"

Working pressure by rules

251 lbs

End plates in steam space:

Material

Steel

Thickness

Material

Steel

Thickness

1/2"

Pitch of stays

8" x 1/2"

How are stays secured

Nuts & Washers

Working pressure by rules

219 lbs

Material of stays

Steel

Diameter at smallest part

3"

Area supported by each stay

288 sq

Working pressure by rules

245 lbs

Material of Front plates at bottom

Steel

Thickness

5/8"

Material of Lower back plate

Steel

Thickness

5/8"

Greatest pitch of stays

8" x 8"

Working pressure of plate by rules

224 lbs

Diameter of tubes

2 1/2"

Pitch of tubes

4" x 4"

Material of tube plate

Steel

Pitch across wide water spaces

14"

Working pressures by rules

337 lbs with 1/2" plates

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

7" x (8" x 2")

Length as per rule

46 1/2"

Distance apart

Pitch across wide water spaces

14"

Working pressures by rules

337 lbs with 1/2" plates

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

7" x (8" x 2")

Length as per rule

46 1/2"

Distance apart

Pitch across wide water spaces

14"

Working pressures by rules

337 lbs with 1/2" plates

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

7" x (8" x 2")

Length as per rule

46 1/2"

Distance apart

Pitch across wide water spaces

14"

Working pressures by rules

337 lbs with 1/2" plates

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

7" x (8" x 2")

Length as per rule

46 1/2"

Distance apart

Pitch across wide water spaces

14"

Working pressures by rules

337 lbs with 1/2" plates

Girders to Chamber tops: Material

Steel

DONKEY BOILER—

No. *1000* Description

Made at *Belfast* By whom made *Harland & Wolff* When made *1906* Where fixed *Donkey Pumps*

Working pressure tested by hydraulic pressure to *100 lbs* No. of Certificate *1000* Fire grate area *100* Description of safety valves *Double*

No. of safety valves *2* Area of each *10* Pressure to which they are adjusted *100* If fitted with easing gear *No* If steam from main boilers enter the donkey boiler *No* Dia. of donkey boiler *10* Length *10* Material of shell plates *Steel* Thickness *1/2* Range of tensile strength *100* Descrip. of riveting long seams *Double* Dia. of rivet holes *1/2* Whether punched or drilled *No* Pitch of rivets *10*

Lap of plating *10* Per centage of strength of joint *100* Rivets *100* Thickness of shell crown plates *1/2* Radius of do. *10* No. of Stays to do. *10*

Dia. of stays *10* Diameter of furnace Top *10* Bottom *10* Length of furnace *10* Thickness of furnace plates *1/2* Description *Double*

joint *10* Thickness of furnace crown plates *1/2* Stayed by *10* Working pressure of shell by rules *100*

Working pressure of furnace by rules *100* Diameter of uptake *10* Thickness of uptake plates *1/2* Thickness of water tubes *1/2*

SPARE GEAR. State the articles supplied:—

See other Sheet.

The foregoing is a correct description,

Harland & Wolff Manufacturer.

Dates of Survey *1906* During progress of work in shops *100* During erection on board vessel *100* Total No. of visits *121*

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

" " " donkey " " " *Yes*

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

The machinery of this vessel has been constructed under Special Survey, and in accordance with the Rules. The materials and the workmanship throughout are of good description, and on trial under steam in Belfast Lough, the machinery worked satisfactorily. In my opinion, it is eligible for record of + L.M.C. 206 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 206. FLEC LIGHT

27.2.06

The amount of Entry Fee... £ *3* : - : When applied for, *1906*

Special... £ *108* : 7 : : When received, *1906*

Donkey Boiler Fee... £ : : : *1906*

Travelling Expenses (if any) £ : : : *1906*

Committee's Minute

Assigned

TUES. 6 MAR 1906

TUES. 12 JUN 1906 FRI. 15 JUN 1906

FRI. 31 JUL 1906

TUES. 4 SEP 1906

FRI. FEB 22 1907 TUES. JUL 23 1907

MACHINERY CERTIFICATE WRITTEN.

Rpt. 9a.

Port of *Belfast* Continuation of Report No. *6931* dated *26th February* on the*H.P. New Amsterdam**Donkey Pumps**W. Gen. Feed: - 15 1/2 x 18 1/2 x 26 Double**General: - 10 1/2 x 7 x 12 Duplex.**- 10 1/2 x 7 x 12 -**- 10 1/2 x 7 x 12 -**Ballast: - 14 x 15 x 14 Westminster**- 12 x 10 x 14 -**Fire Pump: - 8 x 9 1/2 x 10 Duplex**- 8 x 9 1/2 x 10 -**F. Waters: - 5 1/2 x 4 x 5 -**- 5 1/2 x 4 x 5 -**Centrif. Circulating: - 10 diam**- 10 -**(for Wash Condenser) - 8 -**Aux. air Pump do: - 9 x 15 x 12 Meir.**Spare Gear.**2 Man. Bronze Propeller Blades**Propeller Shaft.**Pan crank pin brasses**Air pump rod, bucket & guards, head & foot valves**Centrifugal Impeller & spindle**H. P. & L. P. valve spindles & rack bushes.**Eccentric strap complete**Let's piston rings for H. P. & L. P.**Pan top end brasses for connecting rods.**Link block & brasses.**Let's rings for H. P. & L. P. piston valves.**Let's feed & delivery valves for Meir's Pumps.**Duplex Feed**Spare gear for Centrif. Pumps & Engines**Cylinder escape valves & springs**Crank gear for machinery generally**240 plain tubes for boilers**5 Safety valve springs**Feed escape valve springs**Link ring & gland bolts & studs set**Warm & warm & light complete for steering engine**60 Condenser tubes, 120 flanges, set**and all gear to other Requirements additional**R. J. Beveridge*

Lloyd's Register Foundation

W673-0023