

REPORT ON MACHINERY

No. 1362

SAT. 10 JAN. 1918

REC'D NEW YORK

Received at London Office

Date of writing Report

When handed in at Local Office

Dec 10th 1917

Port of

Newport - Wales

No. in Survey held at

Newport - Wales

Date, First Survey

May 2nd 1917

Last Survey

Dec 6th 1917

Reg. Book.

NEW on the

STEEL S.S. "MUNINDIES"

(Number of Visits

50.

Gross 5095

Tons

Net 3759

When built

1917.12

Master

JORGENSEN

Built at

Newport - Wales

By whom built

Newport - Wales S.S. & C.

Engines made at

Newport - Wales

By whom made

Newport - Wales S.S. & C.

when made

1917.12

Boilers made at

Newport - Wales

By whom made

Newport - Wales S.S. & C.

when made

1917.12

Registered Horse Power

471

Owners

Manson S.S. LINES.

Port belonging to

New York

Nom. Horse Power as per Section 28

471

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

No

Yes

ENGINES, &c.—Description of Engines

Steam: Triple Expanding

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

24 1/2, 4 1/2, 7 1/2

Length of Stroke

48

Revs. per minute

70

Dia. of Screw shaft

as per rule 14 1/4

Material of

O.H.S.

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

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

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

60"

Dia. of Tunnel shaft

as per rule 13 1/4

Dia. of Crank shaft journals

as per rule 13 1/4

Dia. of Crank pin

14 3/4

Size of Crank webs

9 1/2"

Dia. of thrust shaft under

collars

Dia. of screw

16 9/16"

Pitch of Screw

16 9/16"

No. of Blades

4

State whether moveable

No

Total surface

92.3

No. of Feed pumps

2

Diameter of ditto

4 1/2 x 2 3/4 x 4 1/2

Stroke

21"

Can one be overhauled while the other is at work

Yes

No

Yes

No. of Bilge pumps

2

Diameter of ditto

5"

Stroke

21"

Can one be overhauled while the other is at work

Yes

No

Yes

No. of Donkey Engines

2

Sizes of Pumps

10x12x12 - 9x6x10

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

In Engine Room

Four 3 1/2"; Tunnel: One 3 1/2"

In Holds, &c.

#1 - Two 3 1/2"

#2 - Two 3 1/2"

No. of Bilge Injections

1

sizes

9"

Connected to condenser, or to circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room & size

Yes

No

Yes

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

Yes

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

Yes

Are they Valves or Cocks

Valves

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

Yes

Are the Discharge Pipes above and below the deep water line

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

Yes

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

L.I.K.

BOILERS, &c.—(Letter for record S.)

Manufacturers of Steel

LUXEMBOURG

+ NORTH BROS.

Total Heating Surface of Boilers

6564

Is Forced Draft fitted

Yes

No. and Description of Boilers

2 S.E. Scotch

Working Pressure

190 lb

Tested by hydraulic pressure to

285

Date of test

0.5.16

No. of Certificate

180-181

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

Oil FUEL

No. and Description of Safety Valves to

each boiler

Two 3 1/2"

Area of each valve

9.62

Pressure to which they are adjusted

Smallest distance between boilers or uptakes and bunkers or woodwork

18"

Mean dia. of boilers

16 1/2"

Length

11 1/2"

Material of shell plates

S.

Thickness

1 3/4"

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

D.R.L.

long. seams

T.B.S.T.R.

Diameter of rivet holes in long. seams

1 3/4"

Pitch of rivets

8 3/4"

Lap of plates or width of butt straps

23"

Per centages of strength of longitudinal joint

rivets 103.6

plate 82

Working pressure of shell by rules

203

Size of manhole in shell

16 x 12

Size of compensating ring

34 x 35

No. and Description of Furnaces in each boiler

4 Water Material

S.

Outside diameter

47 1/2"

Length of plain part

top 19

Thickness of plates

bottom 32

Description of longitudinal joint

WELD

No. of strengthening rings

Yes

Working pressure of furnace by the rules

200

Pitch of stays to ditto: Sides

7 x 7

Back

7 x 7

Top

8 x 7

If stays are fitted with nuts or riveted heads

Yes

Working pressure by rules

197

Material of stays

S.

Area at smallest part

1.47

Area supported by each stay

56

Working pressure by rules

20

End plates in steam space:

Material S.

Material S.

Thickness

1 1/2"

Pitch of stays

16 x 16

How are stays secured

D.N.

Working pressure by rules

197.5

Material of stays

Area at smallest part

23 1/4"

Area supported by each stay

256

Working pressure by rules

24

Material of Front plates at bottom

S.

Thickness

3/4"

Material of Lower back plate

S.

Thickness

3/4"

Greatest pitch of stays

12 1/2"

Working pressure of plate by rules

280

Diameter of tubes

2 3/4"

Pitch of tubes

4 x 3 3/4"

Material of tube plates

S.

Thickness: Front

3/4"

Back

3/4"

Pitch across wide water spaces

12 3/4"

Working pressures by rules

279

Girders to Chamber tops: Material

S.

Depth and

thickness of girder at centre

Two 10 x 3/4"

Length as per rule

Working pressure by rules

210

Steam dome: description of joint to shell

Yes

% 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

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

W442-0188

Lloyd's Register

Foundation