

REPORT ON MACHINERY

No. 10629

THU. 24 OCT. 1918

Received at London Office

Date of writing Report 14 of October 1918. When handed in at Local Office

19 Port of Rotterdam

Date, First Survey 15-16

Last Survey 19-1918

No. in Survey held at Rotterdam

Reg. Book.

on the Dutch Steel Screw Steamer Export

(Number of Visits 13)

Tons Gross 950-

Net

When built 1918

Master Goodens

Built at Millingen

By whom built Mun. Bodewes

Engines made at Rotterdam

By whom made Mun. Bruggemans' Machinefabriek

when made 1918

Boilers made at Rotterdam

By whom made Mun. Bruggemans' Machinefabriek

when made 1918

Registered Horse Power 2

Owners Rotterdam London Lys

Port belonging to Rotterdam

Nom. Horse Power as per Section 28 117 N.H.P.

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

MACHINERY, &c.—Description of Engines Triple expansion

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 15 3/4 x 15 5/8 x 41 3/8

Length of Stroke 14 5/8

Revs. per minute 99

Dia. of Screw shaft as fitted 9 1/4

Material of Steel

Is the screw shaft fitted with a continuous liner, the whole length of the stern tube No liner

Is the after end of the liner made water tight

If the liner does not fit tightly at the part

If two

Length of stern bush 2-2

Dia. of Tunnel shaft as per rule 6

Dia. of Crank shaft journals as per rule 8 1/4

as fitted 8 1/4

Dia. of Crank pin 8 1/4

Size of Crank webs 18 x 5 1/2

Dia. of thrust shaft under

Collars 8 1/4

No. of Feed pumps 2

Diameter of ditto 2

Stroke 15 3/4

Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2

Diameter of ditto 2

Stroke 15 3/4

Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2

Sizes of Pumps 1 1/2 x 4 x 6, 1 1/2 x 4 x 6

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

In Holds, &c. One in Port and one in Starboard wing of 2 1/2

In Engine Room Three of 2 1/2

No. of Bilge Injections 1 sizes 3 1/2

Connected to circulating pump

Is a separate Donkey Suction fitted in Engine room & size 1 1/2 x 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 Yes

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 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 Suctions for hold, protected by wooden casing

How are they protected wooden casing

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 None

Is it fitted with a watertight door No

worked from No

BOILERS, &c.—(Letter for record S. V.) Manufacturers of Steel Rheinische Stahlwerke

Total Heating Surface of Boilers 20600

Is Forced Draft fitted No

No. and Description of Boilers 2 single ended marine boilers

Working Pressure 180 lb

Tested by hydraulic pressure to 240 lb

Date of test 5-6-17

No. of Certificate 634

Can each boiler be worked separately Yes

Area of fire grate in each boiler 144 sq ft

33.50

No. and Description of Safety Valves to

each boiler Two pump loaded

Area of each valve 4 sq in

Pressure to which they are adjusted 180 lb

Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork over 16 in

Mean dia. of boilers 10 1/10

Length 9 1/4

Material of shell plates Steel

Thickness 3/16

Range of tensile strength 28-35 tons

Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams all in lap

long. seams all butt with rivets

Diameter of rivet holes in long. seams 1 1/8

Pitch of rivets 6 1/8

Lap of plates or width of butt straps 15 3/4

Per centages of strength of longitudinal joint rivets 84.5 %

Working pressure of shell by rules 195 lb

Size of manhole in shell 12 x 16

Material Steel

Outside diameter 15 5/8

Size of compensating ring 8 x 1 1/2

No. and Description of Furnaces in each boiler 2. 9 mm

Material Steel

Outside diameter 15 5/8

Length of plain part top 4

Thickness of plates crown 9/16

Description of longitudinal joint welded

No. of strengthening rings 4

Working pressure of furnace by the rules 185 lb

Combustion chamber plates: Material Steel

Thickness: Sides 1/4

Back 1/4

Top 1/4

Bottom 1/4

Working pressure by rules 190 lb

Pitch of stays to ditto: Sides 8 1/16 x 7 1/16

Back 7 1/16 x 8 1/16

Top 8 1/4 x 8 1/4

If stays are fitted with nuts or riveted heads riveted, nutted

Working pressure by rules 205 lb

End plates in steam space:

Material of stays Steel

Area at smallest part 1.48 sq ft

Area supported by each stay 6 3/4

Working pressure by rules 198 lb

Material of stays Steel

Material Steel

Thickness 3/32

Pitch of stays 18 1/2 x 14 1/2

How are stays secured Lined, nutted

Working pressure by rules 265

Material of Front plates at bottom Steel

Area at smallest part 5.4 sq ft

Area supported by each stay 270

Working pressure by rules 280 lb

Material of plate by rules 280 lb

Thickness 1/32

Material of Lower back plate 3/4

Thickness 1/4

Greatest pitch of stays 14 1/2 x 8 1/2

Working pressure of plate by rules 280 lb

Mean pitch of stays 8 5/8 x 12 1/2

Diameter of tubes 3 1/2

Pitch of tubes 4 1/16 x 4 1/16

Material of tube plates Steel

Thickness: Front 3/32

Back 1/32

Mean pitch of stays 8 5/8 x 12 1/2

Girders to Chamber tops: Material Steel

Depth and

Pitch across wide water spaces 14 1/8

Working pressures by rules 213 lb

Distance apart 8 1/4

Number and pitch of stays in each 2 at 8 1/16

% of strength of joint

Working pressure by rules 205 lb

Steam dome: description of joint to shell

Diam. of rivet holes

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Thickness

How stayed

Pitch of rivets

Working pressure of shell by rules

Crown plates

Tested by Hydraulic Pressure to

SUPERHEATER. Type None

Date of Approval of Plan

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

L of Test

Pressure to which each is adjusted

Is Easing Gear fitted

Diameter of Safety Valve

002401-002409-0011

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