

Date of writing Report 20 December 1912. When handed in at Local Office

19 Port of Rotterdam

No. in Survey held at Rotterdam
Reg. Book.

Date, First Survey 13 February

Last Survey 19 December 1912

on the

S.S. "Mydrecht"

(Number of Visits 24)

Tons { Gross 246.45
Net 216.18

Master T. Franjer

Built at Rotterdam

By whom built

Rotterdamse Droogdok Maatschappij

When built 1912

Engines made at Rotterdam

By whom made

Rotterdamse Droogdok Maatschappij

when made 1912

Boilers made at Do

By whom made

Do

when made 1912

Registered Horse Power 4

Owners

C.V. S.S. "Mydrecht"

Port belonging to Rotterdam

Nom. Horse Power as per Section 28 311

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 15" x 18" x 12"

Length of Stroke 42"

Revs. per minute 90

Dia. of Screw shaft

Material of steel

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

Is the after end of the liner made water tight

in the propeller boss No

If the liner is in more than one length are the joints burned No

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

Length of stern bush 4' 8 3/4"

Dia. of Tunnel shaft as per rule 12 5/16"

Dia. of Crank shaft journals as fitted 12 5/16"

Dia. of Crank pin 12 5/16"

Size of Crank webs 1/2" x 5 1/2"

Dia. of thrust shaft under

collars 12 5/16"

Dia. of screw 16 9/16"

Pitch of Screw 16 9/16"

No. of Blades 4

State whether moveable No

Total surface 85 5/8"

No. of Feed pumps 2

Diameter of ditto 2 1/2"

Stroke 21 7/8"

Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2

Diameter of ditto 2 1/2"

Stroke 21 7/8"

Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2

In Engine Room 2

In Holds, &c. 2

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

In Engine Room 2 of 2 1/2" forward pump and 2 of 2 1/2" after pump

In Holds, &c. 2 of 2 1/2" in Tank 1 on Port and 2 of 2 1/2" in Tank 2 on Starboard

No. of Bilge Injections 1 sizes 1 1/2" Connected to condenser, or to circulating pump

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

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

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. None

How are they protected

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

Dates of examination of completion of fitting of Sea Connections. 12/9

of Stern Tube 11/9

Screw shaft and Propeller 12/9

Is the Screw Shaft Tunnel watertight No

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel Rheinische Stahlwerke AG, Duisburg-Essen, Hoescht

Total Heating Surface of Boilers 2 x 2125 = 4250 sq. ft. Is Forced Draft fitted Yes

No. and Description of Boilers Two horizontal main boilers

Working Pressure 180 lb. Tested by hydraulic pressure to 240 lb.

Date of test 13 September No. of Certificate 316

Can each boiler be worked separately Yes

Area of fire grate in each boiler 60 sq. ft.

No. and Description of Safety Valves to

each boiler 2 spring loaded

Area of each valve 12.56 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 12"

Mean dia. of boilers 15"

Length 11' 7 1/2"

Material of shell plates Steel

Forecastle 33.4 Thickness 1 1/2" Range of tensile strength 28-32 tons

Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams All rivets lap

long. seams double butt 5 x 1/2" Diameter of rivet holes in long. seams 1 1/4"

Pitch of rivets 8 1/4"

Lap of plates or width of butt straps 18"

Per centages of strength of longitudinal joint

rivets 91 7/8%

plate 84 3/4%

Working pressure of shell by rules 182 lb.

Size of manhole in shell 12" x 16"

Size of compensating ring

No. and Description of Furnaces in each boiler 2. Marine

Material Steel Outside diameter 59 1/2"

Length of plain part top

bottom

Thickness of plates crown 1 1/2"

bottom 1 1/2"

Description of longitudinal joint Welded

No. of strengthening rings None

Working pressure of furnace by the rules 181 lb.

Combustion chamber plates: Material Steel

Thickness: Sides 1 1/2"

Back 1 1/2"

Top 1 1/2"

Bottom 1 1/2"

Pitch of stays to ditto: Sides 8 x 8"

Back 8 x 7 1/4"

Top 8 x 8 1/4"

If stays are fitted with nuts or riveted heads riveted

Working pressure by rules 195 lb.

Material of stays Steel

Diameter at smallest part 1 1/4"

Area supported by each stay 62 sq. in.

Working pressure by rules 184 lb.

End plates in steam space: Material Steel

Material Steel

Thickness 1 1/2"

Pitch of stays 14 x 19"

How are stays secured riveted

Working pressure by rules 184 lb.

Material of stays Steel

Diameter at smallest part 5.95"

Area supported by each stay 525 sq. in.

Working pressure by rules 190 lb.

Material of Front plates at bottom Steel

Thickness 1 1/2"

Material of Lower back plate Steel

Thickness 1 1/2"

Greatest pitch of stays 14 x 19"

Working pressure of plate by rules 200 lb.

Material of tube plates Steel

Thickness: Front 3/4"

Back 3/4"

Diameter of tubes 5 1/4"

Pitch of tubes 4 1/8" x 4 1/8"

Material of tube plates Steel

Thickness: Front 3/4"

Back 3/4"

Mean pitch of stays 8 3/8 x 8 3/8"

Pitch across wide water spaces 17 1/2"

Working pressures by rules 185 lb.

Girders to Chamber tops: Material Steel

Depth and

thickness of girder at centre 8 1/4" x 11 1/2"

Working pressure by rules 188 lb.

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately Yes

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater 5.14 sq. in.

Are they fitted with easing gear Yes

Lloyd's Register Foundation

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description *Please see accompanying Report*
 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 casing 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 _____
 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 _____ Radius of do. _____ Stayed by _____
 Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:—*10 top end bolts and nuts; 1 bottom end bolts and nuts; 1 main beam bolts and nuts; 1 set of feed and bilge pump valves and guards; 1 set of piston springs; a quantity of assorted bolts and nuts; 1 set of various size; one propeller shaft and propeller; one stemhead and ledenellers ring complete; 12 jacking bolts; safety valve springs; 15 condenser tubes, furnace; 3 plain and stay tubes; 1 air pump rod.*

The foregoing is a correct description;

M. Helmer Manufacturer.
 DE DIRECTEUR
 Dates of Survey while building: During progress of work in shops — February 13, March 26, April 18, 30, May 8, 13, 24, June 5, 21, 24, 27, July 2, 9, 27, 31, Aug 15, 22, 26, 29, Sept 12, 20.
 During erection on board vessel — Oct 10, 18, 19, 22, 24, 28, Nov 5, 17, 15, 20, 23, 28, Dec 1, 9.
 Total No. of visits 34.

Is the approved plan of main boiler forwarded herewith *Yes*
 also pumping arrangement, shafting plan? *Yes*
 " " " donkey " *Yes*

Dates of Examination of principal parts—Cylinders $14/5 - 15/8$ Slides $14/6 - 15/8$ Covers $14/5 - 15/6$ Pistons $14/6 - 15/8$ Rods $14/5 - 9/4$
 Connecting rods $14/5 - 9/4$ Crank shaft $14/6 - 15/6$ Thrust shaft $14/6 - 15/6$ Tunnel shafts _____ Screw shaft $14/6 - 15/6$ Propeller $14/6$
 Stern tube $7/6 - 14/6$ Steam pipes tested $19/10$ Engine and boiler seatings $18/10 - 20/10$ Engines holding down bolts $18/10 - 20/10$
 Completion of pumping arrangements $28/10$ Boilers fixed $1/10$ Engines tried under steam $19/10$
 Main boiler safety valves adjusted $15/10$ Thickness of adjusting washers *Calculated on 8" m. or 12" m. 116" or 158" m. or 149" m.*
 Material of Crank shaft *Steel* Identification Mark on *Lloyd's K.H. 1.12 No. 20, 31* Material of Thrust shaft *Steel* Identification Mark on *Lloyd's K.H. 4/12, 1.12*
 Material of Tunnel shafts *L* Identification Marks on Do. *L* Material of Screw shafts *Steel* Identification Marks on *Lloyd's K.H. 4/12, 1.12*
 Material of Steam Pipes *Steel* Test pressure *36 lbs.*

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

The machinery and boiler having been built in accordance with the approved plans and Secretary's letter, material tested as required, workmanship good; the whole having worked satisfactorily under steam. I am of opinion that the vessel is eligible to be recorded in the Society's Registerbook with + L.M.C. 12.12.

It is submitted that this vessel WILL BE eligible for the record + LMC 12.12

F.D.

The amount of Entry Fee .. £ 36.- : When applied for, *23/12*
 Special .. £ 426.- :
 Donkey Boiler Fee .. £ :
 Travelling Expenses (if any) £ 10.- : When received, *31.12.12*

Committee's Minute

TUE DEC 31 1912

Assigned

HMC 12.12

P. R. Berner
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

MACHINERY CERTIFICATE
 WRITTEN.



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Lloyd's Register Foundation

Rpt. 5a.

Date of writing
 No. in S
 Reg. Book.

Master *J.*

Engines made

Boilers made

Registered H

MULTIT

(Letter for r

Boilers *H.*

No. of Certi

safety valves

Are they fitte

Smallest dist

Material of s

Descrip. of r

Lap of plates

rules 182

boiler *Ferry*

Description of

plates: Mate

Top 8" x 1/2"

smallest part

Pitch of stays

Area support

Lower back p

Pitch of tubes

water spaces

girder at cent

Working pres

separately 2

holes 2

If stiffened wi

Working pres

Dates of Survey while building
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Travelling

Committee

Assigned