

Rpt. 4.

REPORT ON MACHINERY.

No. 2341

Date of writing Report 9 June 1921 When handed in at Local Office

Received at London Office TUE. 14 JUN 1921

No. in Survey held at
Reg. Book.

Port of Amsterdam Date, First Survey 12 March 1920 Last Survey 24 May 1921

on the Machinery of the ship La om "Maristo"

(Number of Visits 12)

Tons } Gross
NetMaster Built at Sukkerwer By whom built K. V. Int'gen Beton Scheep M^{te} When built 1921

Engines made at Hengelo By whom made Geb. Hork & Co when made 1921

Boilers made at Hengelo By whom made Geb. Hork & Co when made 1921

Registered Horse Power Owners r.d. E. B. & D. J. H. H. Port belonging to Rotterdam

Nom. Horse Power as per Section 28 300 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines

Triple exp

No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 15 7/16 x 28 3/8 x 65 Length of Stroke 41 Revs. per minute 90 Dia. of Screw shaft as per rule 12 3/4 as fitted 12 3/4 Material of screw shaft S.M.S.

Is the screw shaft fitted with a continuous liner the whole length of the stern tube no liners Is the after end of the liner made water tight in the propeller boss If the liner is in more than one length are the joints turned 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 57"

Dia. of Tunnel shaft as per rule 11 3/4 as fitted 11 3/4 Dia. of Crank shaft journals as per rule 12 3/4 as fitted 12 3/4 Dia. of Crank pin 12 3/4 Size of Crank webs 6 1/2 x 8 1/4 Dia. of thrust shaft under collars 12 3/4 Dia. of screw 19 1/2 Pitch of Screw No. of Blades State whether moveable Total surface

No. of Feed pumps 2 Diameter of ditto 4 3/4 Stroke 15 3/4 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 4 3/4 Stroke 15 3/4 Can one be overhauled while the other is at work Yes

No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room In Holds, &c.

No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers How are they protected

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

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

Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel William Beardmore & Co. Ltd.

Total Heating Surface of Boilers 5943 sq ft Is Forced Draft fitted Yes No. and Description of Boilers Three single ended

Working Pressure 185 lbs Tested by hydraulic pressure to 277.5 lbs Date of test 12-5-21 No. of Certificate 295

Can each boiler be worked separately Yes Area of fire grate in each boiler 49 sq ft No. and Description of Safety Valves to each boiler Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 161.4" Length 137.0" Material of shell plates S.M.S.

Thickness 36.5/32 Range of tensile strength 30 ton Are the shell plates welded or flanged Descrip. of riveting: cir. seams double long. seams quintuple Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 8" Lap of plates or width of butt straps 17 1/16

Per centages of strength of longitudinal joint rivets 27.2 plate 25.3 Working pressure of shell by rules 194 lbs Size of manhole in shell 12 x 16

Size of compensating ring 5 5/16 x 1 1/16 No. and Description of Furnaces in each boiler 3 Morrison's Material S.M.S. Outside diameter 41 5/16

Length of plain part top bottom Thickness of plates crown bottom 3 9/16 Description of longitudinal joint welded No. of strengthening rings 1

Working pressure of furnace by the rules 197 lbs Combustion chamber plates: Material S.M.S. Thickness: Sides 1 1/16 Back 3/4 Top 1 1/16 Bottom 7/8

Pitch of stays to ditto: Sides 7.3 x 7.9 Back 8.4 x 8.5 Top 6.7 If stays are fitted with nuts or riveted heads welded Working pressure by rules 100 lbs

Material of stays S.M.S. Area at smallest part 1 7/8 Area supported by each stay 70 sq in Working pressure by rules 213 lbs End plates in steam space:

Material S.M.S. Thickness 1 Pitch of stays 15.7 x 17.3 How are stays secured welded Working pressure by rules 201 lbs Material of stays S.M.S.

Area at smallest part 2 7/8 Area supported by each stay 271.6 sq in Working pressure by rules 206 lbs Material of Front plates at bottom S.M.S.

Thickness 1 3/16 Material of Lower back plate S.M.S. Thickness 2 1/2 Greatest pitch of stays 14 3/16 x 8 1/2 Working pressure of plate by rules 320 lbs

Diameter of tubes 2 3/4 Pitch of tubes 3 7/8 x 3 5/16 Material of tube plates S.M.S. Thickness: Front Back Mean pitch of stays

Pitch across wide water spaces 14 9/16 Working pressures by rules 105 lbs Girders to Chamber tops: Material S.M.S. Depth and

thickness of girder at centre 2 x 3/4 x 7/8 Length as per rule 26 3/4 Distance apart 7 7/8 Number and pitch of stays in each 3 x 6 1/16

Working pressure by rules 215 Steam dome: description of joint to shell % 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

W281-0130

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IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

As per attached list

The foregoing is a correct description

Machinefabrick Gehr. STORK & Co.

Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits

1920: March 12-26, May 4-20, July 20, Aug 25, 1921 Jan 31, Feb 21, 23, March 20, May 6, May 24

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 12th of March 1920, Slides 25 Aug 1920, Covers 25 Aug 1920, Pistons 25 Aug 1920, Rods 12 March 1921

Connecting rods 31 January 1921, Crank shaft 25 March 21, Thrust shaft 25 March 21, Tunnel shafts 25 March 21, Screw shaft 25 March 21, Propeller 25 March 21

Stern tube 25 March 21, Steam pipes tested, Engine and boiler seatings, Engines holding down bolts

Completion of pumping arrangements, Boilers fixed, Engines tried under steam

Completion of fitting sea connections, Stern tube, Screw shaft and propeller

Main boiler safety valves adjusted, Thickness of adjusting washers

Material of Crank shaft SMS, Identification Mark on Do. B 620, Material of Thrust shaft SMS, Identification Mark on Do. B 200

Material of Tunnel shafts SMS, Identification Marks on Do. B 161-601, Material of Screw shafts SMS, Identification Marks on Do. B 3211

Material of Steam Pipes, Steel, Test pressure

Is an installation fitted for burning oil fuel, Is the flash point of the oil to be used over 150°F.

Have the requirements of Section 49 of the Rules been complied with

Is this machinery duplicate of a previous case no. If so, state name of vessel

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

This vessel's Machinery has been made in accordance with the approved plans, material duly tested under rules and as per letter E 19th January 1921. Workmanship throughout good. The Machinery will be placed aboard at Lutterwer.

The amount of Entry Fee ... £ 60:-- : When applied for,
Special 4/5 Fee ... £ 790.70 : : 19
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ 268:-- : 11-10-21

Committee's Minute

Assigned

FRI. OCT. 28 1921

Engineer Surveyor to Lloyd's Register of Shipping.



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Rpt. 13.

Port of

No. in Reg. Book

Owners

Yard No.

DESCRIPTION

Capacity of D

Where is Dyn

Position of M

Positions of

If fuses are

circuits

If vessel is up

Are the fuses

Are all fuses

are per

Are all switc

Total number

A Aug

B Aug

C Cho

D Mo

E Mo

2 M

2

8

If arc lights

Where are

DESCRIPTION

Main cable

Branch cable

Branch cable

Leads to lam

Cargo light

DESCRIPTION

Joints in

Are all the

position

Are there

How are

by gal