

REPORT ON MACHINERY.

No. 11999

Received at London Office

14/10/21.

Date of writing Report 10 Oct 1921 When handed in at Local Office

Port of Rotterdam

No. in Survey held at Rotterdam

Date, First Survey 28/7

Last Survey 7/10 1921

Reg. Book. on the *Paul Four Schaner OLDEKERK ex SESOSTRIS*

(Number of Visits 12)

Tons Gross 7242, Net 4567.69

Master F. L. Luyes Built at Flensburg

By whom built Flensburger Schiffbau

When built 1915

Engines made at ditto

By whom made ditto

when made 1915

Boilers made at ditto

By whom made ditto

when made 1915

Registered Horse Power

Owners N.V. Vereenigde Scheepvaart

Port belonging to S. Gravenhage

om. Horse Power as per Section 28 695

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

Engines, &c.—Description of Engines

Vertical Triple Expansion

No. of Cylinders 3

No. of Cranks 3

a. of Cylinders 31 1/2 x 50 1/4 x 84

Length of Stroke 54

Revs. per minute 72

Dia. of Screw shaft as per rule

Material of screw shaft Sell

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

the propeller boss Yes 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

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

Length of stern bush 5'-8 1/2"

a. of Tunnel shaft

as per rule

Dia. of Crank shaft journals as per rule

as fitted 16 3/8

Dia. of Crank pin 16 3/8

Size of Crank webs 13 1/8 x 10 1/2

ars 16 1/8

Dia. of screw 20-1

Pitch of Screw 18-6

No. of Blades 4

State whether moveable no

Total surface 110 ft.

of Feed pumps 2

Diameter of ditto 7 7/8

Stroke 20 5/8

Can one be overhauled while the other is at work Yes

of Bilge pumps 2

Diameter of ditto 4 7/8

Stroke 3 1/2

Can one be overhauled while the other is at work Yes

of Donkey Engines 5

Sizes of Pumps 1 1/2 x 7 7/8 x 10 5/8

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

Engine Room 4 x 3 1/2

In Holds, &c. N: I 2 x 3 1/2

II 2 x 3 1/2 III 2 x 3 1/2

of Bilge Injections 1

sizes 10

Connected to condenser or to circulating pump Yes

Is a separate Donkey Suction fitted in Engine room & size 4 x 3 1/2

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

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

Are they Valves or Cocks Both

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 Both

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

at pipes are carried through the bunkers

How are they protected

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

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

the Screw Shaft Tunnel watertight Yes

Is it fitted with a watertight door Yes

worked from E R top platform.

Boilers, &c.—(Letter for record S)

Manufacturers of Steel

al Heating Surface of Boilers 9908 sq ft

Is Forced Draft fitted Yes

No. and Description of Boilers 4 S E multitubular

working Pressure 185 lbs

Tested by hydraulic pressure to 270 lbs

Date of test 7-9-21

No. of Certificate

each boiler be worked separately Yes

Area of fire grate in each boiler 600

No. and Description of Safety Valves to

boiler 2 Spring loaded

Area of each valve 12.50

Pressure to which they are adjusted 185 lbs

Are they fitted with easing gear Yes

least distance between boilers or uptakes and bunkers or woodwork 20

Mean dia. of boilers 14'-9"

Length 12'-1/2"

thickness 7/32

Range of tensile strength 28-32

Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams 2 1/2 x 3 x

seams 4 x DB.

Diameter of rivet holes in long. seams 1 3/8

Pitch of rivets 18 1/4-9 1/8

Lap of plates or width of butt straps 27 9/16

percentages of strength of longitudinal joint

rivets 92

plate 85

Working pressure of shell by rules 185 lbs

Size of manhole in shell 12 5/8 x 16 1/2

of compensating ring 8 5/8 x 1 1/2

No. and Description of Furnaces in each boiler 3 Horizontal

Material Sell Outside diameter 45 1/8

length of plain part

top bottom

Thickness of plates

crown 9/16

Description of longitudinal joint Welded

No. of strengthening rings

working pressure of furnace by the rules 190

Combustion chamber plates: Material Sell

Thickness: Sides 1 1/16

Back 5/8

Top 1 1/16

Bottom 1

of stays to ditto: Sides 7 1/16

Back 7 1/2 x 7 1/8

Top 7 1/2 x 7 1/8

If stays are fitted with nuts or riveted heads

Working pressure by rules 190

material of stays Sell

Area at smallest part 1.452

Area supported by each stay 592

Working pressure by rules 170

End plates in steam space:

material Sell

Thickness 1

Pitch of stays 15

How are stays secured D nuts

Working pressure by rules 199

Material of stays Sell

at smallest part 7.07

Area supported by each stay 225

Working pressure by rules 325

Material of Front plates at bottom Sell

thickness 1

Material of Lower back plate Sell

Thickness 7/8

Greatest pitch of stays 14 1/4

Working pressure of plate by rules 185

Mean pitch of stays 8 5/8

diameter of tubes 3 1/8

Pitch of tubes 4 5/16

Material of tube plates Sell

Thickness: Front 1

Back 1 5/16

Mean pitch of stays 8 5/8

Working pressures by rules 200 lbs

across wide water spaces 14 1/8

Girders to Chamber tops: Material Sell

Depth and

Working pressure of plate by rules 185

ness of girder at centre 9 7/8 x 13 1/8

Length as per rule 33 1/2

Distance apart 7 1/2

Number and pitch of stays in each 3 x 7 7/8

% of strength of joint

working pressure by rules 210

Steam dome: description of joint to shell

Diam. of rivet holes

material Sell

Thickness of shell plates

Material

Description of longitudinal joint

How stayed

Working pressure of shell by rules

of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

Tested by Hydraulic Pressure to 600 lbs.

Superheater. Type Smut

Date of Approval of Plan

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

Is Easing Gear fitted

date of Test 7-9-21

Pressure to which each is adjusted 185 lbs

diameter of Safety Valve 2

IS A DONKEY BOILER FITTED? *no*

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied:— 2 Top and bolts and nuts, 2 bottom end bolts and nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set of piston springs, 1 set of feed and bilge pump valves, iron of various sizes, assorted bolts and nuts, 1 propeller shaft and propeller, 1 new crankshaft, 1 valve spindle, 15 plain tubes, 20 condenser tubes with flanges

The foregoing is a correct description,

Manufacturer.

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

28/7 - 8/8 - 18/8 - 27/8 - 7/9 - 14/9 - 19/9 - 7/10 1921

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

Dates of Examination of principal parts—Cylinders 28/7 Slides 28/7 Covers 28/7 Pistons 28/7 Rods 28/7
Connecting rods 28/7 Crank shaft 28/7 Thrust shaft 28/7 Tunnel shafts 28/7 Screw shaft 1/8 - 7/9 Propeller 8/8
Stern tube 7/9 Steam pipes tested - Engine and boiler seatings 1/9 Engines holding down bolts 1/9
Completion of pumping arrangements - Boilers fixed - Engines tried under steam 7/10
Completion of fitting sea connections - Stern tube - Screw shaft and propeller -
Main boiler safety valves adjusted 14/9 Thickness of adjusting washers SB 10.17 mm C 17.16 mm P 13.2
Material of Crank shaft S.M. Identification Mark on Do. G.L. Material of Thrust shaft S.M. Identification Mark on Do. G.L.
Material of Tunnel shafts S.M. Identification Marks on Do. G.L. Material of Screw shafts S.M. Identification Marks on Do. G.L.
Material of Steam Pipes S.M. Test pressure -
Is an installation fitted for burning oil fuel *no* 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. The machinery has been

carefully examined after opening up as per Secretary's instructions and found in accordance with the approved plans. Pistons tested to 270 lbs. and found tight and sound at that pressure. The crankshaft has been skimmed fair and a new main line fitted. Stern tube removed and replaced by a new brass with hygienic water at new solid brass propeller fitted. The machinery has run satisfactorily during a trial and made in our opinion be recorded in the County's Register Book with L.M.C 10-21.

The amount of Entry Fee

Special

Donkey Boiler Fee

Travelling Expenses (if any)

Committee's Minute

Assigned

When applied for

When received

Engineer Surveyor to Lloyd's Register of Shipping

TUE SEP. 19 1922 TUE APR. 24 1923

FRI DEC. 9 1921 TUE 10 JAN. 1922

L.M.C 10-21

F.D. C.L.

FRI APR. 21 1922

FRI APR. 28 1922

TUE MAR 6 1923

Lloyd's Register Foundation

FRI 13 OCT. 1922