

## REPORT ON MACHINERY.

No. 8077.

Received at London Office MON. JUL. 13 1920

Date of writing Report 5 July 1920 When handed in at Local Office

Port of Amsterdam

No. in Survey held at Amsterdam  
Reg. Book.Date, First Survey 9 Sept 1919 Last Survey 25 May 1920  
(Number of Visits 20)

on the Engines C. C. No. 134.

Tons  
Gross  
Net  
When built

Built at Alder Kardiniaal By whom built Scheepvaert de Merwedder

Engines made at Amsterdam

By whom made Kerschure &amp; Co Scheepvaert de Merwedder when made 1920.

Boilers made at Rotterdam

By whom made Wilton's Machinefabriek when made

Registered Horse Power

Owners

Port belonging to

om. Horse Power as per Section 28 110.54

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

GINES, &amp;c.—Description of Engines

Triple Expansion

No. of Cylinders

No. of Cranks

Dia. of Cylinders 15" x 25" x 40" Length of Stroke 24" Revs. per minute 95

Dia. of Screw shaft

as per rule 8.29  
as fitted 8.29

Material of screw shaft S. M. Steel

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

the propeller boss If the liner is in more than one length are the joints burned

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 35 3/8"

Dia. of Tunnel shaft

as per rule 7.16  
as fitted 7.46

Dia. of Crank shaft journals

as per rule 7.13  
as fitted 7.83

Dia. of Crank pin

7.16  
as fitted 7.46

Size of Crank webs

14 3/4" x 4 1/2"

Collars 7 1/8"

Dia. of screw

10' 6"

Pitch of Screw

12" x 1/8"

No. of Blades 4

State whether moveable

No

Total surface 45 sq ft.

Vo. of Feed pumps

two

Diameter of ditto

2 1/16"

Stroke

13 1/2"

Can one be overhauled while the other is at work Yes

Vo. of Bilge pumps

two

Diameter of ditto

2 1/16"

Stroke

13 1/2"

Can one be overhauled while the other is at work Yes

Vo. of Donkey Engines

two

Sizes of Pumps

6" x 4" x 6" Duplex

6" x 4" x 6"

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

n Engine Room

In Holds, &amp;c.

Vo. of Bilge Injections One sizes 3 9/16" Connected to condenser, to circulating pump Yes Is a separate Donkey Suction fitted in Engine room &amp; 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

OILERS, &amp;c.—(Letter for record

Manufacturers of Steel

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

180 lb

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets  
plate

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top  
bottom

Thickness of plates

crown  
bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Back

Mean pitch of stays

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

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

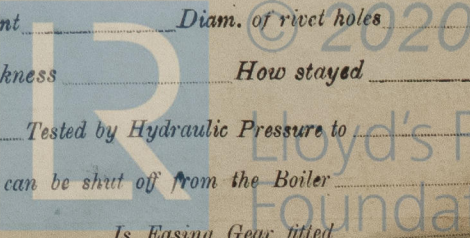
Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

2600-555500-045500



IS A DONKEY BOILER FITTED? *Yes.*

If so, is a report now forwarded *see Glasgow Rep N: 39*

SPARE GEAR. State the articles supplied:—

*Two connecting rod top & bottom ends bolt & nuts. two main bearing & one set coupling bolts & nuts. Two feed & two bilge pump valves. A quantity of bolts & nuts assorted. Require to be verified in Rotterdam District.*

The foregoing is a correct description,

*Verschure & Co's*  
*Scheepswerk en Machinefabriek*  
*Rotterdam* Manufacturer.

Dates of Survey while building { During progress of work in shops - - } *1919. 9-18-19 Sept, 8 & 10 Oct, 1-6-8 & 14 Nov. 4-12-19 & 29 Dec ✓*  
{ During erection on board vessel - - - } *1920. 5-17-26 Jan, 3-10 Feb, 3 April & 25 May.*  
Total No. of visits *20 visits*

Is the approved plan of main boiler forwarded herewith ☒

„ „ „ donkey „ „ „ ☒

Dates of Examination of principal parts—Cylinders *19 8-10 22* Slides *13 16 10* Covers *10* Pistons *19-29 26* Rods *5-26*  
Connecting rods *5-26* Crank shaft *17-26 3-10* Thrust shaft *17-26 3-10* Tunnel shafts *✓* Screw shaft *3 25* Propeller *3 4*  
Stern tube *3 4* 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 *Ann. S. in Identification Mark on Do. *LLOYDS* *N: 305* *J.B.S. 25.5.10* Material of Thrust shaft *Ann. S. in Identification Mark on Do. *LLOYDS* *N: 305* *J.B.S. 25.5.10**  
Material of Tunnel shafts ☒ Identification Marks on Do. ☒ Material of Screw shafts *Ann. S. in Identification Marks on Do. *LLOYDS* *N: 305* *J.B.S. 25.5.10**  
Material of Steam Pipes ☒ 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 ☒ If so, state name of vessel ☒

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

*The machinery for this vessel has been constructed in accordance with the Society's Rules & approved plans which are herewith returned to London Office. The material is of good ductile quality and duly tested required. All castings are sound. Cylinders, Condensor & Stern tube <sup>under hydraulic pressure</sup> been tested with satisfactory results.*

*This engine has been sent to messrs the Scheepswerk de Merwede Netherland in order to be placed in their N: 134 vessel. A copy of this report with approved pumping plan and approved donkey boiler plan with Glasgow Report N: 39920. have been forwarded to the Rotterdam District Surveyors.*

Certificate (if required) to be sent to

The amount of Entry Fee ... £ : : When applied for,  
*2/3 Special* ... £ *153.20* ... *July 1920*  
Donkey Boiler Fee ... £ : : When received,  
Travelling Expenses (if any) *£ 5.40* ... *July 1920*

Committee's Minute TUE. SEP. 21 1920

Assigned

*J. B. Oliver*

Engineer Surveyor to Lloyd's Register of Shipping



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