

# REPORT ON MACHINERY.

No. 39509.

Received at London Office

Report

19

When handed in at Local Office

5

1

Port of

Glasgow.

Survey held at

Glasgow.

Date, First Survey 14/8/19.

Last Survey 30/12/1919.

the

S.S. ONEGA.

(Number of Visits)

le at

Glasgow.

Built at Londonderry.

By whom built North of Ireland S.S. Co. Ltd

Tons } Gross

Net

When built 1919

le at

Glasgow

By whom made

McKie & Baxter. No 935

when made 1919

Horse Power

Owners

A. F. Craig & Co. Messrs. Campbell & Co. Stephen & Co. W. Thomson & Co.

when made 1919

Port belonging to Leith.

Power as per Section 28

433 433.

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

S, & Co.—Description of Engines

Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Inders 25"-41"-68"

Length of Stroke 45"

Revs. per minute 74

Dia. of Screw shaft

as per rule 13.58

Material of screw shaft

S

shaft fitted with a continuous liner the whole length of the stern tube

yes

Is the after end of the liner made water tight

eller boss

yes

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

yes

If the liner does not fit tightly at the part

bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

yes

If two

tted, is the shaft lapped or protected between the liners

yes

Length of stern bush

60"

el shaft

as per rule 12.41

Dia. of Crank shaft journals

as per rule 13.03

Dia. of Crank pin

13 1/4

Size of Crank webs

24 1/2 x 8 1/2

Dia. of thrust shaft under

4

Dia. of screw

16'-0"

Pitch of Screw

16'-3"

No. of Blades

4

State whether moveable

no

Total surface

75 sq. ft.

pumps

2

Diameter of ditto

3 1/2

Stroke

24"

Can one be overhauled while the other is at work

yes

pumps

2

Diameter of ditto

3 1/2

Stroke

24"

Can one be overhauled while the other is at work

yes

ey Engines

3

Sizes of Pumps

See separate report

9" 7" 18"

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

21

In Holds, &c.

Room

jections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

lge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

ctions with the sea direct on the skin of the ship

Are they Valves or Cocks

l sufficiently high on the ship's side to be seen without lifting the

Are the Discharge Pipes above or below the deep water line

fitted with a Discharge Valve always accessible

Are the Blow Off Cocks fitted with a spigot and brass covering plate

re carried through the bunkers

How are they protected

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

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

Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

, & Co.—(Letter for record

S

)

Manufacturers of Steel

Steel Co of Scotland, Glasgow, & Co.

ng Surface of Boilers

Is Forced Draft fitted

yes

No. and Description of Boilers

Three

Cylindrical

Multitubular

essure

180.

Tested by hydraulic pressure to

Date of test

No. of Certificate

No. and Description of Safety Valves

to

Area of fire grate in each boiler

51.7 sq. ft.

No. and Description of Safety Valves

to

Area of each valve

Pressure to which they are adjusted

185 lbs.

Are they fitted with easing gear

Mean dia. of boilers

Length

Material of shell plates

Range of tensile strength

Are the shell plates welded or flanged

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates

width of butt straps

Strength of longitudinal joint

Working pressure of shell by rules

Size of manhole in shell

No. and Description of Furnaces in each boiler

ating ring

Material

Outside diameter

No. of strengthening rings

Thickness of plates

Description of longitudinal joint

ure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

End plates in steam space

Area at smallest part

Area supported by each stay

Working pressure by rules

Thickness

Pitch of stays

Area supported by

Working pressure by rules

Material of Front plates at bottom

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

bes

Pitch of

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

order at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Steam dome: description of joint to shell

% of strength of joint

Thickness of shell plates

Material

Description of longitudinal joint

Working pressure of shell by rules

Crown plates

Thickness

How stayed

ATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

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

Pressure to which each is adjusted

ety Valve

Is Easing Gear fitted



*If so, is a report now forwarded?*

To be checked at Barry.

Mckie & Baxter

*Manufacturer.*

Dates of survey while building { During progress of work in shops - - } 1919. Aug 11. 18. 20. 26. 28. Sept 2. 15. 16. 17. 19. 22. 23. Oct 1. 6. 7. 8. 13. 15. 16. 20. 21. 23. 27. 29. 30. Nov 3. 4. 5.  
{ During erection of board vessel - - } 11. 12. 13. 18. 19. 20. 24. 25. 27. Dec 1. 2. 3. 4. 6. 10. 15. 17. 18. 22. 24. 30. (Shafting) Aug 25. Oct 29. May 21. 1920.  
{ Total No. of visits } 55

Is the approved plan of main boiler forwarded herewith

*Is the approved plan of main boiler forwarded herewith*

Dates of Examination of principal parts—Cylinders 27/11/19 Slides 17/11/19 10/12/19 Covers 27/11/19 Pistons 17/11/19 Rods 3/12/19  
Connecting rods 6/12/19 Crank shaft 18/11/19 Thrust shaft 21/5/19 Tunnel shafts 8/9/19 Screw shaft 27/4/19 Propeller 22/1/19  
Stern tube 18/8/19 Steam pipes tested 22/12/19. Engine and boiler seatings ✓ Engines holding down bolts 22-11-19  
Completion of pumping arrangements 30-12-19 ✓ Boilers fixed ✓ Engines tried under steam 30-12-19  
Completion of fitting sea connections ✓ Stern tube ✓ Screw shaft and propeller ✓  
Main boiler safety valves adjusted 30-12-19 Thickness of adjusting washers P. P.V. 7/16: S. 3/16: C. P.V. 9/32: S.V. 5/16: S. P.V. 7/32: S.V. 5/16  
Material of Crank shaft S. ✓ Identification Mark on Do. 95/11/19 Material of Thrust shaft S. ✓ Identification Mark on Do. 21/1/19  
Material of Tunnel shafts S. ✓ Identification Marks on Do. 9/11/19 Material of Screw shafts S. ✓ Identification Marks on Do. 21/1/19  
Material of Steam Pipes W. J. Lap welded Test pressure 540 lbs.  
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 C. class standard

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

The machinery has been built under Special Survey and the workmanship and materials so far as seen are sound & good.

The engines have been fitted on board in an efficient manner, tried under working conditions and found satisfactory; as the Owners wished the vessel leave this Port before the New Year, the following items remain to be completed: Racing Gears to fitt to main boiler safety valves; Evaporator to connect up with safety valve to test; Platform grating at back of boilers to finish. Spare Gears to complete this it was arranged should be done at at Bristol Channel Port (Barry). The Surveyors have been advised; when the above have been completed the machine will be eligible in our opinion to be classed with record of ~~12~~ 11. C 1.

The amount of Entry Fee ... £	3 : 0 :	When applied for,
Special	31 5	6/11/20.
Donkey Boiler Fee	5 : 5 : 0	
Travelling Expenses (if any) £	26	When received,
		2/3/20

Committee's Minute

Assigned. Deferred for compl.

FRI-FEB.6-1920

Lloyd's Register  
Foundation