

REPORT ON MACHINERY.

No. 39509.

Received at London Office

Report 19 When handed in at Local Office 5. 1. 1920. Port of Glasgow.
Survey held at Glasgow Date, First Survey 14/18/19. Last Survey 30/12/1919.
the S.S. "ONEGA" (Number of Visits)

Built at Londonderry. By whom built North of Ireland S.S. Co. Ltd
Glasgow. By whom made McKie & Baxter. No 935 when made 1919
Glasgow. By whom made A.F. Craig & Co. Messrs. Campbell & Co. when made 1919
Horse Power Owners W. Thomson & Co. Port belonging to Leith.
Power as per Section 28 430 433. Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

S, &c.—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 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 If two
tted, is the shaft lapped or protected between the liners Length of stern bush 60"
el shaft as per rule 12.3 12.41 Dia. of Crank shaft journals as per rule 13.02 13.03
as fitted 12 1/2 as fitted 13 1/4 Dia. of Crank pin 13 1/4 Size of Crank webs 2 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 Lead 9" Stroke 18" No. and size of Suctions connected to both Bilge and Donkey pumps
Room Ballant 10 - 1 1/2 21 In Holds, &c.

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 plates Are the Discharge Pipes above or below the deep water line
fitted with a Discharge Valve always accessible plating of the vessel 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
, &c.—(Letter for record S) Manufacturers of Steel Steel Co of Scotland, Beaulieu, Spence & Co.
ng Surface of Boilers 4200 ft Is Forced Draft fitted types No. and Description of Boilers Three Cylindrical multitubular
essure 180. Tested by hydraulic pressure to Date of test No. of Certificate

er be worked separately Area of fire grate in each boiler 51.7 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
nce between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting cir. seams
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates width of butt straps
f strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
sating ring No. and Description of Furnaces in each boiler Material Outside diameter
n part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
bottom Thickness of plates bottom
ure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
ays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space
Thickness Pitch of stays Area supported by stay Working pressure by rules Material of stays
lest part Area supported by stay 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 stays 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
rder at centre Length as per rule Distance apart Number and pitch of stays in each
sure by rules Steam dome: description of joint to shell % of strength of joint
Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
Working pressure of shell by rules Crown plates Thickness How stayed

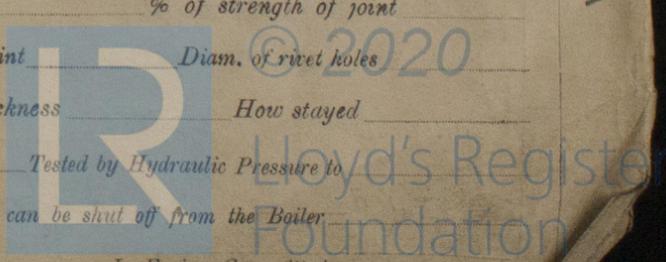
ATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
ety Valve Pressure to which each is adjusted Is Easing Gear fitted

See Separate Report

Boilers constructed under B.C. Survey

Sec certificate attached

W1238-0026



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

To be checked at Barry.

The foregoing is a correct description,

Mackie & Baxter

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1919. Aug 14. 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 on 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) Also 29. May 21. A
 Total No. of visits 55

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 27/11/19 Slides 19/11/19. 10/12/19 Covers 27/11/19 Pistons 17/9/19 Rods 2/12/19
 Connecting rods 6/12/19 Crank shaft 18/11/19 Thrust shaft 21/5/19 Tunnel shafts 8/9/19. Screw shaft 29/4/19 Propeller 22/12/19
 Stern tube 18/8/19 Steam pipes tested 22/12/19. Engine and boiler seatings ✓ Engines holding down bolts 22-12-19

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 Donkey 18/11/19 Material of Thrust shaft S. ✓ Identification Mark on Do. 21/5/19

Material of Tunnel shafts S. ✓ Identification Marks on Do. 8/9/19 Material of Screw shafts S. ✓ Identification Marks on Do. 29/4/19

Material of Steam Pipes N.S. 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 to leave this Port before the New Year, the following items remain to be completed: Saering Gear to fitt to main boiler safety valves; Swaporator to connect up with safety valve to test; Platform grating at back of boiler to finish. Spare Gear to check 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 machinery will be eligible in our opinion to be classed with record of R.M.C. 1-

It is submitted that this vessel is eligible for THE RECORD.

The amount of Entry Fee ... £ 3 : 0 :
 Special 31 5 :
 Donkey Boiler Fee due 5 : 5 : 0 due 5 : 5 : 0
 Travelling Expenses (if any) £ :

When applied for, 6/1/20.
 When received, 2/3/19 20 RBTV

Peter W. Gregor, J. Bell, Thos. J. Murray
Engineer, Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 8 - JAN 1920 FRI. FEB. 6 - 1920
Assigned Deferred for complu



Glasgow. Certificate (if required) to be sent to Glasgow. The Surveyors are requested not to write on or below the space for Committee's Minute.

Writing Report
 Survey held a
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