

REPORT ON MACHINERY.

No. 10450

Date of writing Report 12th Jan. 1920 When handed in at Local Office 29th Jan. 1920 Port of Southampton
in Survey held at Southampton Date, First Survey 5th Sept. 1919 Last Survey 6th Jan. 1920
on the Standard Coaster "AFON GWILLI" (Number of Visits 6)
Built at Southampton By whom built Camper & Nicholson & Co. Ltd. Tons { Gross 873.53
Net 426.51
When built 1919
Engines made at North Shields By whom made Shields Eng. & Dry Dock Co. Ltd. when made 1919
Boilers made at Newcastle By whom made Wallsend Slipway Co. Ltd. when made 1919
Registered Horse Power Owners W. Coombs Port belonging to Llanelly
Horse Power as per Section 28 129 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

GINES, &c.—Description of Engines

No. of Cylinders Length of Stroke Revs. per minute Dia. of Screw shaft as per rule as fitted Material of screw shaft
The screw shaft fitted with a continuous liner the whole length of the stern tube 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
boilers are fitted, is the shaft lapped or protected between the liners Length of stern bush
Dia. of Tunnel shaft as per rule as fitted Dia. of Crank shaft journals as per rule as fitted Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under
boilers Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface
No. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
No. of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
No. of Donkey Engines Two Sizes of Pumps 5 1/4" x 5" x 3 1/2" & 6" x 7" x 7" No. and size of Suctions connected to both Bilge and Donkey pumps
Engine Room 2.2 1/4", 1.2 1/2" and 1.2" In Holds, &c. 2.2" in Hold. 4.2 1/2" in Double Bottom
1.2 1/2" in Fore Peak. 1.2 1/2" in After Peak.
No. of Bilge Injections One sizes 6 1/2" Connected to condenser, or to circulating pump C. Pump Is a separate Donkey Suction fitted in Engine room & size yes. 2 1/2"
Are 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 none
Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Valves
Are 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 above
Are 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
What pipes are carried through the bunkers Suctions for Hold, D.B. & Fore Peak How are they protected Under Ceiling
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes
Is the Screw Shaft Tunnel watertight NO TUNNEL Is it fitted with a watertight door worked from

MILERS, &c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
Working Pressure Tested by hydraulic pressure to Date of test No. of Certificate
Can each boiler be worked separately yes Area of fire grate in each boiler No. and Description of Safety Valves to
each boiler 2 Spring Loaded Area of each valve 3.14 sq. Pressure to which they are adjusted 183 lbs. Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers or woodwork 4'-6" 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
Percentage of strength of longitudinal joint rivets 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 Thickness of plates crown 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 Working pressure of plate by rules
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 None % 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 None 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

IS A DONKEY BOILER FITTED? No

If so, is a report now forwarded? —

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

PER PRO

GAMPER & NICHOLSON'S LTD.

James Gamper
MANAGER.

Installing Contractors
Manufacturers.

Dates of Survey while building { During progress of work in shops - - }
{ During erection on board vessel - - - } 5-9-19; 11-9-19; 3-10-19; 4-11-19; 5-1-20; 6-1-20.
Total No. of visits 6

Is the approved plan of main boiler forwarded herewith yes 82

Dates of Examination of principal parts—Cylinders ✓ Slides ✓ Covers ✓ Pistons ✓ Rods ✓
Connecting rods ✓ Crank shaft ✓ Thrust shaft ✓ Tunnel shafts ✓ Screw shaft ✓ Propeller ✓
Stern tube ✓ Steam pipes tested 3-10-19 Engine and boiler seatings 5-9-19 Engines holding down bolts 4-11-19

Completion of pumping arrangements 19-12-19 Boilers fixed 28-10-19 Engines tried under steam 6-1-20
Completion of fitting sea connections 11-9-19 Stern tube 11-9-19 Screw shaft and propeller 11-9-19

Main boiler safety valves adjusted 5-1-20 Thickness of adjusting washers Port Bk { P. 1/2" S. 3/8" } Starb Bk { P. 3/8" S. 1/2" }

Material of Crank shaft ✓ Identification Mark on Do. ✓ Material of Thrust shaft ✓ Identification Mark on Do. ✓
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts ✓ Identification Marks on Do. ✓

Material of Steam Pipes Copper ✓ Test pressure 360 Lb.

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 and Boilers of CHILERS, &

Vessel have been efficiently fitted on board, and on trial proved satisfactory.

The Spare gear is in accordance with the rule requirements, and the Machine is eligible in my opinion to have notation + L.M.C. 1.20.

It is submitted that
this vessel is eligible for
THE RECORD. L.M.C. 1.20.

KUR
2/2/20. *APR*

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

The amount of Entry Fee ... £ 4 : 16 : 9 : When applied for, 19.
Special ... £ : : When received, 1/3/20
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : : 1/3/20

Committee's Minute TUE FEB. 3 1920

Assigned

+ LMC 1, 20

A. H. Doyle
Engineer Surveyor to Lloyd's Register of Shipping



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Foundation