

## REPORT ON MACHINERY.

No. 18192.

Received at London Office

WED. 7 MAY. 1924

Date of writing Report 29 March 1924 When handed in at Local Office 29 March 1924 Port of Greenock  
No. in Survey held at Greenock Date, First Survey 17 March Last Survey 20 March 1924  
Reg. Book. on the Single sc. sloop AGILITY (Number of Visits 4)

Master Built at Greenock By whom built George Brown & Co. (No. 4) Tons <sup>Gross</sup> 592 <sub>Net</sub> 592 When built 1924  
Engines made at Coathridge By whom made Wm. Beardmore & Co. Ltd. when made 1924  
Boilers made at Dalmuir By whom made do 359 when made 1923  
Registered Horse Power Owners Frederick T. Everard & Sons Ltd. Port belonging to London  
Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

## ENGINES, &amp;c.—Description of Engines

Description of Engines			No. of Cylinders	No. of Cranks
Dia. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft	Material of screw shaft
Is the screw shaft fitted with a continuous liner the whole length of the stern tube <u>Yes</u>			Is the after end of the liner made water tight	
in the propeller boss <u>Yes</u> 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	
liners are fitted, is the shaft lapped or protected between the liners			Length of stern bush	
Dia. of Tunnel shaft	Dia. of Crank shaft journals	Dia. of Crank pin	Size of Crank webs	Dia. of thrust shaft under collars
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	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps		
In Engine Room			In Holds, &c.	

No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & 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 Yes Are they Valves or Cocks Both  
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 Yes  
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

## BOILERS, &amp;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	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	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	Thickness of plates	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	
Material of stays	Area at smallest part	Area supported by each stay	Working pressure by rules	
Material	Thickness	Pitch of stays	How are stays secured	
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	
Diameter of tubes	Pitch of tubes	Material of tube plates	Thickness: Front	Back
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	
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

004332-004337-0174



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - }  
During erection on board vessel - - - } 1924 March 17 18 19 20  
Total No. of visits 4.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

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	Engine and boiler seatings	18.3.24	Engines holding down bolts	
Completion of pumping arrangements		Boilers fixed		Engines tried under steam	
Completion of fitting sea connections	19.3.24	Stern tube	19.3.24	Screw shaft and propeller	20.3.24
Main boiler safety valves adjusted		Thickness of adjusting washers			
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		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.)

This vessel has proceeded to Glasgow where the machinery will be fitted on board.

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	£	:	:	When applied for,
Special	£	:	:	19
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	19

Committee's Minute

GLASGOW

-6 MAY 1924

Assigned

See Glasgow Report No 43595

S. F. Dorey

Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation