

REPORT ON MACHINERY.

No. 17681
THU. JUL. 22 1920

Received at London Office

Date of writing Report 5th May 1920 When handed in at Local Office 15/5/1920 Port of Greenock
 No. in Survey held at Port - Glasgow. Date, First Survey 22nd March Last Survey 7th May 1920
 Reg. Book. on the Steel Screw Steamship "RONALD." (Number of Visits 3)
 Master Robert Duncan & Co. Ltd. Built at Port - Glasgow. By whom built Robert Duncan & Co. Ltd. Tons { Gross 6249
 Engines made at Glasgow. By whom made David Brown & Co. Ltd. when made 1920 Net 3619
 Boilers made at G. By whom made G. when made 1920 When built 1920.
 Registered Horse Power Owners Athineiskapet Nektor Port belonging to Zonsberg
 Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &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 <small>as per rule</small> Material of screw shaft <small>as fitted</small>
Is 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 in 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	
Dia. of Tunnel shaft <small>as per rule</small>	Dia. of Crank shaft journals <small>as per rule</small>	Dia. of Crank pin	Size of Crank webs
<small>as fitted</small>	<small>as fitted</small>		Dia. of thrust shaft under collars
Dia. of screw	Pitch of Screw	No. of Blades	State whether moceable
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		<u>Yes</u>	Are they Valves or Cocks <u>Both</u>
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 <u>Above</u>	
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 <u>Yes</u>	
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, &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 <small>top</small>	Thickness of plates <small>top</small>	Description of longitudinal joint	No. of strengthening rings
<small>bottom</small>	<small>bottom</small>		
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		End plates in steam space:	
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
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	
% 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

If not, state whether, and when, one will be sent



