

REPORT ON MACHINERY.

No. 69862

Received at London Office

of writing Report 1st May 1917 When handed in at Local Office 1st May 1917 Port of Newcastle on Tyne  
in Survey held at Garron Date First Survey 13th Jan 1917 Last Survey 30th April 1917  
Book 4 on the Adriano (Number of Visits 5854)  
Built at Newcastle By whom built Palmer & Co Tons { Gross 5854 Net 3719  
When built 1917  
Lines made at Sunderland By whom made C. Clark when made 1917  
Machinery made at do By whom made do when made 1917  
Registered Horse Power (A. M. Escher) Port belonging to London

Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

FINES, & Co.—Description of Engine 2 attached upst. No. 26964 No. of Cylinders 2 No. of Cranks 2

of Cylinders Length of Stroke Revs. per minute Dia. of Screw shaft as per rule Material of  
as fitted 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

are fitted, is the shaft lapped or protected between the liners Length of stern bush

of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin Size of Crank webs Dia. of thrust shaft under  
as fitted as fitted

of screws Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

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

Engine Room In Holds, &c.

of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

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

all connections with the sea direct on the skin of the ship Are they Valves or Cocks

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

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

that pipes are carried through the bunkers How are they protected

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

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

of examination of completion of fitting of Sea Connections 26/4/17 of Stern Tube 26/4/17 Screw shaft and Propeller 26/4/17

the Screw Shaft-Tunnel watertight Is it fitted with a watertight door worked from

ROLLERS, & Co.—(Letter for record) Manufacturers of Steel

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

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

g. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

percentages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell  
plate

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  
bottom bottom

working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

material of stays Diameter 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

diameter 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

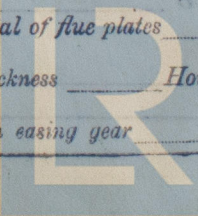
working pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivets

plates Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear



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IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:-

See Report No 26964

The spare feed pump valves are now on board.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building  
During progress of work in shops - - 1917  
During erection on board vessel - - Jan 13, Feb 7, Apr 26 30  
Total No. of visits 4.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders \_\_\_\_\_ Shells \_\_\_\_\_ Covers \_\_\_\_\_ Pistons \_\_\_\_\_ Rods \_\_\_\_\_  
Connecting rods \_\_\_\_\_ Crank shaft \_\_\_\_\_ Thrust shaft \_\_\_\_\_ Tunnel shafts \_\_\_\_\_ Screw shaft \_\_\_\_\_ Propeller \_\_\_\_\_  
Stern tube \_\_\_\_\_ Steam pipes tested \_\_\_\_\_ Engine and boiler seatings 7/2/17 Engines holding down bolts \_\_\_\_\_  
Completion of pumping arrangements \_\_\_\_\_ Boilers fixed \_\_\_\_\_ Engines tried under steam \_\_\_\_\_  
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 is now fitted for coal burning for the outward voyage and the Survey is complete.

The report on electric installation will be forwarded when received from the contractors.

It is submitted that this vessel is eligible for THE RECORD. + LMC 4.17. F.D.

Fitted for oil fuel 4.17. F.P. above 150°F

The amount of Entry Fee ... £ : :  
Special ... £ : :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : :  
When applied for, 10  
When received, 10

Committee's Minute

TUE 15 MAY 1917

Assigned

See Sd report attached

George Murdoch  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping



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