

REPORT ON MACHINERY.

No. 30849

THU. 24 MAY 1917

Received at London Office

Date of writing Report 23. 4. 1917 When handed in at Local Office 19 Port of GLASGOW

No. in Survey held at Glasgow Date, First Survey 3. 2. 15 Last Survey 15. 5. 1917

Reg. Book. S/S "Eslenneris" (Number of Visits 88)

on the Master Built at Irvine By whom built Ayrshire Dockyard & Co. Ltd. When built 1917

Engines made at Glasgow By whom made Dunsmuir & Jackson Ltd. when made 1917

Boilers made at ditto By whom made ditto when made 1917

Registered Horse Power Owners Indian & S. S. Co. (London & Glasgow) Port belonging to Glasgow

Nom. Horse Power as per Section 28 510 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 24" 43" 42" Length of Stroke 48" Revs. per minute 78 Dia. of Screw shaft 14" 61" as per rule 14" 61" as fitted 15" Material of screw shaft Iron

Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight

In the propeller 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

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 60 1/2"

Dia. of Tunnel shaft 13 3/4" as per rule 13 3/4" as fitted 13 3/4" Dia. of Crank shaft journals 13 3/4" as per rule 13 3/4" as fitted 13 3/4" Dia. of Crank pin 14 1/2" Size of Crank webs 9 1/2" x 28" Dia. of thrust shaft under

collars 14 1/2" Dia. of screw 14 1/2" Pitch of Screw 18 1/2" No. of Blades 4 State whether moveable Yes Total surface 95 1/2"

No. of Feed pumps 2 Diameter of ditto 4" Stroke 26" Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2 Diameter of ditto 4 1/4" Stroke 26" Can one be overhauled while the other is at work Yes

No. of Donkey Engines 4 Sizes of Pumps 4 1/2" 4 1/2" 4 1/2" 4 1/2" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 4 - 3 1/2" (2 in. E.R. 2 in. B.R.) 3 1/2" In Holds, &c. 2 - 3 1/2" in each hold. Trawl 8 in. 1.2 1/2"

No. of Bilge Injections 1 sizes 5 1/2" Connected to condenser to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size Yes 3 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 Yes

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 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 None How are they protected —

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

Dates of examination of completion of fitting of Sea Connections 19. 1. 14 of Stern Tube 19. 1. 14 Screw shaft and Propeller 19. 1. 17

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from U.E.R. Platform

BOILERS, &c.—(Letter for record YES) Manufacturers of Steel James Dunlop, Steel Co. Bolwell & Shearer

Total Heating Surface of Boilers 7644 Is Forced Draft fitted Yes No. and Description of Boilers 3 Single Ended

Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 5. 9. 16 No. of Certificate 13535

Can each boiler be worked separately Yes Area of fire grate in each boiler 49.84 No. and Description of Safety Valves to

46 inch boiler Double Spring Area of each valve 9.60 Pressure to which they are adjusted 185 Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 15.136" Length 12.6" Material of shell plates S

Thickness 13/8" Range of tensile strength 28/32 Are the shell plates welded or flanged — Descrip. of riveting: cir. seams DR

given 19. 1. 14 TRIDBS Diameter of rivet holes in long. seams 17/16" Pitch of rivets 97/8" Lap of plates or width of butt straps 1.9 1/8"

Percentage of strength of longitudinal joint rivets 88.5% Working pressure of shell by rules 208 Size of manhole in shell 16" x 12"

Percentage of strength of longitudinal joint plate 85.3% No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 3.10

Length of compensating ring 4 1/2" x 13/8" No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 3.10

Length of plain part top 29/16" Description of longitudinal joint welded No. of strengthening rings —

Working pressure of furnace by the rules 204 Combustion chamber plates: Material S Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 7/8"

Water Caps Tons 116 Pitch of stays to ditto: Sides 9 1/4" x 18 7/8" Back 9 1/4" x 18 7/8" Top 8 1/4" x 18 7/8" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 194

Material of stays S Diameter at smallest part 1 1/8" Area supported by each stay 8 1/2" Working pressure by rules 210 End plates in steam space: —

867 Material S Thickness 13/32" Pitch of stays 8 1/4" x 15 1/4" How are stays secured DN. Working pressure by rules 188 Material of stays S

Material S Diameter at smallest part 5/8" Area supported by each stay 3 1/2" Working pressure by rules 192 Material of Front plates at bottom S

Thickness 31/32" Material of Lower back plate S Thickness 29/32" Greatest pitch of stays 14 1/4" x 9 3/4" Working pressure of plate by rules 200

Diameter of tubes 2 1/2" Pitch of tubes 39 1/4" x 13 1/16" Material of tube plates S Thickness: Front 31/32" Back 13/16" Mean pitch of stays 9.44

12. 21. 24 Pitch across wide water spaces 13 1/2" Working pressures by rules 182 Girders to Chamber tops: Material Iron Depth and

6. 16. 19 1/16 Thickness of girder at centre 11 1/2" (2) Length as per rule 3.3 Distance apart 8 1/8" Number and pitch of stays in each 3 at 9 1/8"

29. 19 1/16 Working pressure by rules 210 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 rivet

116 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

Manufacturers of Steel

SPARE GEAR. State the articles supplied:—

DUNSMUIR & JACKSON, Limited.

The foregoing is a correct description.

Manufacturer.

Is the approved plan of main boiler forwarded herewith

Test pressure 540 lb ✓

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 5.17. F.D.

Committee's Minute GLASGOW.

Assigned + L.M.C. 5.17

MACHINERY CERTIFICATE
WRITTEN. 24/571

W. Gordon. Maclellan
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping

Lloyd's Register
Foundation