

## REPORT ON MACHINERY.

No. 69644  
THU. FEB. 22. 1917

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of writing Report 21<sup>st</sup> Feb 1917 When handed in at Local Office 13 FEB 1917 Port of Newcastle-on-Tyne  
 in Survey held at Newcastle-on-Tyne Date, First Survey 17<sup>th</sup> Aug 1916 Last Survey 14<sup>th</sup> Feb 1917  
 Book. on the STEAM STEAMER "JARRIX" (Number of Plates 39)

ster Built at Selby By whom built Cochran & Co. Ltd. When built 1914

gines made at H. Shields By whom made Shields Eng. & Dry Dock Coy. when made 1914

ilers made at Helburn-on-Tyne By whom made Palmer's S.S. & C. Coy. Ltd. when made 1914

gistered Horse Power 144.430 Owners Hunter Steam Coasters & Port belonging to Hull

m. Horse Power as per Section 28 69.3 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted No.

GINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks Three

a. of Cylinders 12"-20"-34" Length of Stroke 24" Revs. per minute 113 Dia. of Screw shaft as per rule 4.25" Material of screw shaft Scrap iron

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

the propeller boss Yes If the liner is in more than one length are the joints burned or caulked 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

ers are fitted, is the shaft lapped or protected between the liners Length of stern bush 2.8"

ia. of Tunnel shaft as per rule 6.2" Dia. of Crank shaft journals as per rule 6.2" Dia. of Crank pin 6.2" Size of Crank webs 4.25" Dia. of thrust shaft under

llars 6.2" Dia. of screw 9.4" Pitch of Screw 9.3:4 10.3: No. of Blades 4 State whether moveable No. Total surface 30.4 sq. ft.

o. of Feed pumps 2 Diameter of ditto 2.4" Stroke 12" Can one be overhauled while the other is at work Yes

o. of Bilge pumps 2 Diameter of ditto 2.4" Stroke 12" Can one be overhauled while the other is at work Yes

o. of Donkey Engines Two Sizes of Pumps 6x6x6 6x6x6 No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 3:2 dia In Hold, &c. Three 2 dia

o. of Bilge Injections 1 sizes 3 Connected to condenser, or to circulating pump No Is a separate Donkey Suction fitted in Engine room & size Yes 2 dia

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

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 Hold Suctions How are they protected By strong wood casing

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 12/1/14 of Stern Tube 12/1/14 Screw shaft and Propeller 12/1/14

Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door worked from

OILERS, &c.—(Letter for record S) Manufacturers of Steel J. Spencer & Sons Ltd.

Total Heating Surface of Boilers 146 Is Forced Draft fitted No No. and Description of Boilers One Cylinder must single

Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 29/9/16 No. of Certificate 8900

Can each boiler be worked separately Area of fire grate in each boiler 33 sq. ft. No. and Description of Safety Valves to

each boiler 2 Direct Spring loaded Area of each valve 5.9" Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork Along 2 ft. Mean dia. of boilers 2 ft. Length of shell plates Report

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 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 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 rivet

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

If 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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