

# REPORT ON MACHINERY.

No. 14167

Port of Greenock

JAN. 17 1905

Survey held at Greenock Date, first Survey 29<sup>th</sup> Nov. Last Survey 7<sup>th</sup> Dec 1904  
 on the Screw Steamer Glenpark (Number of Visits 3)  
 Built at Greenock By whom built Ges. Brown & Co. When built 1904  
 Engines made at Glasgow By whom made Ross & Duncan when made 1904  
 Descriptive filers made at Glasgow By whom made Ross & Duncan when made 1904  
 Owners Ed. Wenhölm Port belonging to Greenock  
 Registered Horse Power 3/8 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

**GINES, &c.—Description of Engines**  
 No. of Cylinders 2 No. of Cranks 2  
 Dia. of Cylinders 18 in. Length of Stroke 24 in. Revs. per minute 110 Dia. of Screw shaft 4 in. Material of screw shaft Steel  
 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  
 the propeller boss Yes If the liner is in more than one length are the joints burned Yes 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 Yes If two  
 liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 12 in.  
 Dia. of Tunnel shaft 18 in. Dia. of Crank shaft journals 18 in. Dia. of Crank pin 4 in. Size of Crank webs 12 in. Dia. of thrust shaft under  
 collars 18 in. Dia. of screw 18 in. Pitch of screw 12 in. No. of blades 2 State whether moveable Yes Total surface 12 in.  
 No. of Feed pumps 2 Diameter of ditto 18 in. Stroke 24 in. Can one be overhauled while the other is at work Yes  
 No. of Bilge pumps 2 Diameter of ditto 18 in. Stroke 24 in. Can one be overhauled while the other is at work Yes  
 No. of Donkey Engines 2 Sizes of Pumps 18 in. No. and size of Suctions connected to both Bilge and Donkey pumps 2  
 In Engine Room Yes In Holds, &c. Yes

No. of bilge injections 2 sizes 18 in. Connected to condenser, or to circulating pump Yes Is a separate donkey suction fitted in Engine room & size 18 in.  
 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 Yes  
 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 Yes How are they protected Yes  
 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  
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock Yes Is the screw shaft tunnel watertight Yes  
 Is it fitted with a watertight door Yes worked from Yes

**BOILERS, &c.—** (Letter for record Yes) Total Heating Surface of Boilers 1200 sq. ft. Is forced draft fitted Yes  
 No. and Description of Boilers 2 Working Pressure 150 lb. Tested by hydraulic pressure to 150 lb.  
 Date of test 1904 Can each boiler be worked separately Yes Area of fire grate in each boiler 120 sq. ft. No. and Description of safety valves to 2  
 each boiler 2 Area of each valve 120 sq. ft. Pressure to which they are adjusted 150 lb. Are they fitted with easing gear Yes  
 Smallest distance between boilers or uptakes and bunkers or woodwork 12 in. Mean dia. of boilers 18 in. Length 12 in. Material of shell plates Steel  
 Thickness 1/2 in. Range of tensile strength 120,000 lb. Are they welded or flanged Yes Descrip. of riveting: cir. seams Yes long. seams Yes  
 Diameter of rivet holes in long. seams 1/2 in. Pitch of rivets 12 in. Lap of plates or width of butt straps 12 in.  
 Per centages of strength of longitudinal joint 100% Working pressure of shell by rules 150 lb. Size of manhole in shell 12 in.  
 Size of compensating ring 12 in. No. and Description of Furnaces in each boiler 2 Material Steel Outside diameter 18 in.  
 Length of plain part 12 in. Thickness of plates 1/2 in. Description of longitudinal joint Yes No. of strengthening rings 2  
 Working pressure of furnace by the rules 150 lb. Combustion chamber plates: Material Steel Thickness: Sides 1/2 in. Back 1/2 in. Top 1/2 in. Bottom 1/2 in.  
 Pitch of stays to ditto: Sides 12 in. Back 12 in. Top 12 in. If stays are fitted with nuts or riveted heads Yes Working pressure by rules 150 lb.  
 Material of stays Steel Diameter at smallest part 12 in. Area supported by each stay 120 sq. ft. Working pressure by rules 150 lb. End plates in steam space: Yes  
 Material Steel Thickness 1/2 in. Pitch of stays 12 in. How are stays secured Yes Working pressure by rules 150 lb. Material of stays Steel  
 Diameter at smallest part 12 in. Area supported by each stay 120 sq. ft. Working pressure by rules 150 lb. Material of Front plates at bottom Steel  
 Thickness 1/2 in. Material of Lower back plate Steel Thickness 1/2 in. Greatest pitch of stays 12 in. Working pressure of plate by rules 150 lb.  
 Diameter of tubes 12 in. Pitch of tubes 12 in. Material of tube plates Steel Thickness: Front 1/2 in. Back 1/2 in. Mean pitch of stays 12 in.  
 Pitch across wide water spaces 12 in. Working pressures by rules 150 lb. Girders to Chamber tops: Material Steel Depth and 12 in.  
 thickness of girder at centre 12 in. Length as per rule 12 in. Distance apart 12 in. Number and pitch of Stays in each 2  
 Working pressure by rules 150 lb. Superheater or Steam chest; how connected to boiler Yes Can the superheater be shut off and the boiler worked Yes  
 separately Yes Diameter 12 in. Length 12 in. Thickness of shell plates 1/2 in. Material Steel Description of longitudinal joint Yes Diam. of rivet 1/2 in.  
 holes 12 in. Pitch of rivets 12 in. Working pressure of shell by rules 150 lb. Diameter of flue 12 in. Material of flue plates Steel Thickness 1/2 in.  
 If stiffened with rings Yes Distance between rings 12 in. Working pressure by rules 150 lb. End plates: Thickness 1/2 in. How stayed Yes  
 Working pressure of end plates 150 lb. Area of safety valves to superheater 120 sq. ft. Are they fitted with easing gear Yes



**DONKEY BOILER—** No. Description

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boiler

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of strength

Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Thickness of shell crown plates Radius of do. No. of Stays to do.

Dia. of stays. Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description

joint Thickness of furnace crown plates Stayed by Working pressure of shell by rules

Working pressure of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

**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—  
Total No. of visits

1904. Nov 29. Dec 2.7.

3.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

**General Remarks** (State quality of workmanship, opinions as to class, &c.)

The propeller, stern tube and fastenings of sea connection were examined before launching and found in good condition.

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 .. .. £ : :  
Donkey Boiler Fee .. .. £ : : When received,  
Travelling Expenses (if any) £ : :  
.....19.....

Committee's Minute

Glasgow 16 JAN 1905

Assigned

Deferred for completion

Wm. R. Austin.  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Lloyd's Register  
Foundation

**YES**

These particulars

Signal Letters (if

Official Number

117392

No., Date, and Port of

Whether British or Foreign Built.

British

Number of Decks

Number of Masts

Rigged

Stern

Build

Galleries

Head

Framework and

vessel

Number of Bulkheads

Number of water

and their capacity

Total to quarter at side amidships

No. of Engines.

One Triple Direct Inverted

set Number Iron or Pressur

Under Tonnage

Closed-in space

Space on deck

Deck 13

Forecastle

Round House

Other closed

Spaces for men

Section 78

1894, if required