

7. Entry No. 18628  
No. 18537

Rpt. 4.

# REPORT ON MACHINERY.

TUES. DEC 18 1900

Surveyor

12 DEC 1900

Port of Glasgow

Received at London Office

No. in Survey held at Linn  
Reg. Book.

Date, first Survey 4 June Last Survey 6 Dec 1900

(Number of Visits 3)

on the S.S. "Gunnisland"

Tons { Gross  
Net

Master Built at Linn

By whom built Ailsa B.B. Co

When built 1900

Engines made at Belfast

By whom made Workman Clark & Co. Ltd. when made

Boilers made at

By whom made when made

Registered Horse Power

Owners C. M. Legg

Port belonging to Belfast

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted

Is Electric Light fitted

## ENGINES, &c.—Description of Engines

Dia. of Cylinders			Length of Stroke		Revs. per minute	Dia. of Screw shaft <sup>as per rule</sup> <sub>as fitted</sub>		No. of Cylinders		No. of Cranks	
Dia. of Tunnel shaft <sup>as per rule</sup> <sub>as fitted</sub>			Dia. of Crank shaft journals <sup>as per rule</sup> <sub>as fitted</sub>		Dia. of Crank pin	Size of Crank webs		Lgth. of stern bush		Dia. of thrust shaft under collars	
Dia. of screw			Pitch of screw		No. of blades		State whether moveable		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 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 Are the discharge pipes above or below the deep water line

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 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

When were stern tube, propeller, screw shaft, and all connections examined in dry dock yes Is the screw shaft tunnel watertight

Is it fitted with a watertight door worked from

## BOILERS, &c.—

(Letter for record) Total Heating Surface of Boilers Is forced draft fitted

No. and Description of Boilers			Working Pressure		Tested by hydraulic pressure to	
Date of test			Can each boiler be worked separately		Area of fire grate in each boiler	
each boiler			Area of each valve		Pressure to which they are adjusted	
Smallest distance between boilers or uptakes and bunkers or woodwork			Mean dia. of boilers		Length	
Thickness			Range of tensile strength		Are they welded or flanged	
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 <sup>rivets</sup> <sub>plate</sub>			Working pressure of shell by rules		Size of manhole in shell	
Size of compensating ring			No. and Description of Furnaces in each boiler		Material	
Length of plain part <sup>top</sup> <sub>bottom</sub>			Thickness of plates <sup>crown</sup> <sub>bottom</sub>		Description of longitudinal joint	
Working pressure of furnace by the rules			Combustion chamber plates: Material		Thickness: Sides	
Pitch of stays to ditto: Sides			Back		Top	
Material of stays			Diameter at smallest part		Area supported by each stay	
Material			Thickness		Pitch of stays	
Diameter at smallest part			Area supported by each stay		Working pressure by rules	
Thickness			Material of Lower back plate		Thickness	
Diameter of tubes			Pitch of tubes		Material of tube plates	
Pitch across wide water spaces			Working pressures by rules		Girders to Chamber tops: Material	
thickness of girder at centre			Length as per rule		Distance apart	
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	
holes			Pitch of rivets		Working pressure of shell by rules	
If stiffened with rings			Distance between rings		Working pressure by rules	
Working pressure of end plates			Area of safety valves to superheater		Are they fitted with easing gear	

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**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 boilers can enter the donkey boiler

Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile 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 of 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

1900! - June. H.S. Dec. 6.

3.

Is the approved plan of main boiler forwarded herewith

donkey

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

Stems tube screw shaft, propeller, sea connections and their fittings fitted & found in good order

This vessel is to receive her machinery in Belfast.

Certificate (if required) to be sent to

The amount of Entry Fee. . . . .	£	:	:	When applied for,
Special . . . . .	£	:	:	18
Donkey Boiler Fee . . . . .	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	18

*A. M. Keane*  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute **Glasgow.** 17 DEC 1900

Assigned

Deferred for completion.

For Belfast sur.



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