

REPORT ON MACHINERY

No. 27009
WED 23 SEP 1908

Received at London Office
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Date of writing Report 18th Sept. 1908 When handed in at Local Office 21/9/1908 Port of Glasgow
Date, First Survey 11th Nov/08 Last Survey 8th July 1908
No. in Survey held at Glasgow
Reg. Book. on the ship No 206
Master Built at Bowling By whom built Scott & Sons (No 206)
Engines made at Glasgow By whom made Houldie & Gillespie (No 83) when made 1908
Boilers made at Pollokshaws By whom made A. H. Dalglisch (No 360) when made 1908
Registered Horse Power Owners Port belonging to
Nom. Horse Power as per Section 28 37 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Compound No. of Cylinders 2 No. of Cranks 2
Dia. of Cylinders 13", 26" Length of Stroke 18" Revs. per minute 130 Dia. of Screw shaft as per rule 5.6" Material of screw shaft as fitted 5.3/4" 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
Is 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 Length of stern bush 2.0"
Dia. of Tunnel shaft as per rule 5.24" Dia. of Crank shaft journals as per rule 5.5" Dia. of Crank pin 5.5/8" Size of Crank webs 3.3/4" x 10.1/4" Dia. of thrust shaft under
collars 5.5/8" Dia. of screw 6.0" Pitch of Screw 9-6" No. of Blades 4 State whether moveable no Total surface 18 ft
No. of Feed pumps 1 Diameter of ditto 2" Stroke 9" Can one be overhauled while the other is at work Yes
No. of Bilge pumps 1 Diameter of ditto 2" Stroke 9" Can one be overhauled while the other is at work Yes
No. of Donkey Engines 1 Sizes of Pumps 4 1/4" x 3" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 2-2" 1 special 2" In Holds, &c. Fore 1-2" aft 1-2"
No. of Bilge Injections 1 sizes 2 1/4" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size Yes-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 main steam How are they protected steel tube
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 2.6.08 of Stern Tube 2.6.08 Screw shaft and Propeller 2.6.08
Is the Screw Shaft Tunnel watertight none Is it fitted with a watertight door plate worked from Bars

BOILERS, &c.—(Letter for record 8) Manufacturers of Steel Steel Co. of Scot, Lanarkshire Steel Co.
Total Heating Surface of Boilers 753 ft² Is Forced Draft fitted Yes No. and Description of Boilers One, Single Ended
Working Pressure 130 lb Tested by hydraulic pressure to 260 lb Date of test 15/2/08 No. of Certificate 8536
Can each boiler be worked separately Yes Area of fire grate in each boiler 29 ft² No. and Description of Safety Valves to
each boiler double spring loaded Area of each valve 3.97" Pressure to which they are adjusted 135 lb Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 6" Mean dia. of boilers 9-6" Length 9-0" Material of shell plates Steel
Thickness 2 1/32" Range of tensile strength 27,32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams OR Lap
long. seams Double strap Diameter of rivet holes in long. seams 7/8" Pitch of rivets 4 7/8" Lap of plates or width of butt straps 9/4"
Per centages of strength of longitudinal joint rivets 88.6 Working pressure of shell by rules 132 lb Size of manhole in shell 16" x 12"
Size of compensating ring 6" x 2 1/32" No. and Description of Furnaces in each boiler two, plain Material Steel Outside diameter 36"
Length of plain part top 6.9" Thickness of plates crown 9/16" Description of longitudinal joint Welded No. of strengthening rings one L
bottom 6.9" Thickness of plates bottom 9/16" Description of longitudinal joint Welded No. of strengthening rings one L
Working pressure of furnace by the rules 130 Combustion chamber plates: Material Steel Thickness: Sides 7/32" Back 7/32" Top 7/32" Bottom 7/32"
Pitch of stays to ditto: Sides 8 x 7 1/2" Back 8 x 7 1/2" Top 8 x 7" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 144
Material of stays Steel Diameter at smallest part 1.8" Area supported by each stay 6.2" Working pressure by rules 134 End plates in steam space:
Material Steel Thickness 25/32" Pitch of stays 14 1/2" How are stays secured Nuts Working pressure by rules 130 Material of stays Steel
Diameter at smallest part 2.66" Area supported by each stay 210" Working pressure by rules 132 Material of Front plates at bottom Steel
Thickness 25/32" Material of Lower back plate Steel Thickness 25/32" Greatest pitch of stays 13" Working pressure of plate by rules 182
Diameter of tubes 3" Pitch of tubes 4" Material of tube plates Steel Thickness: Front 25/32" Back 17/32" Mean pitch of stays 10"
Pitch across wide water spaces 13" Working pressures by rules 130 lb Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 6 1/4" x 1" Length as per rule 23 7/8" Distance apart 7" Number and pitch of stays in each two, 8"
Working pressure by rules 145 lb Superheater or Steam chest; how connected to boiler none 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
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

See attached
Report date
20/10/09

1500-42M


SPARE GEAR. State the articles supplied:—2 connecting rod top end bolts & nuts: 2 connecting rod bottom end bolts & nuts: 2 main bearing bolts: 1 set of coupling bolts: 1 set of feed and bilge pump valves: a quantity of assorted bolts & nuts: iron of various sizes.

Manufacturer.

Is the approved plan of main boiler forwarded herewith

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

This vessel is still lying at Bowling and the report has been held back pending sale of same.

It is submitted that
this vessel is eligible for
THE RECORD.  L. M. C. 7.08

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

Assigned + LMC 7.08. 6. B. 6

Certificate (if required) to be sent to
the space for Committee's Minute.)

Glasgow.

Lloyd's Register
Foundation