

# REPORT ON MACHINERY.

No. 13845

Port of Glasgow

SAT, 17 AUG 1895

Received at London Office 18

No. in Survey held at Glasgow

Date, first Survey 14 Novem<sup>r</sup> 1894 Last Survey 13<sup>th</sup> August 1895

Reg. Book.

(Number of Visits.....)

on the S. S. Moyune

Tons { Gross 4646  
Net 3016

Master A. H. Knappe Built at Glasgow By whom built J. W. Henderson & Co When built 1895

Engines made at Glasgow By whom made J. W. Henderson & Co when made 1895

Boilers made at Glasgow By whom made J. W. Henderson & Co when made 1895

Registered Horse Power 459 Owners China Mut. S. N. Coy Ltd Port belonging to London

Nom. Horse Power as per Section 28 459

**ENGINES, &c.** — Description of Engines Triple Expansion No. of Cylinders Three

Diameter of Cylinders 27", 46" & 76" Length of Stroke 60" Revolutions per minute 80 Diameter of Screw shaft 13.58  
as per rule 13.58 as fitted 15.5

Diameter of Tunnel shaft 14.58 Diameter of Crank shaft journals 15.5 Diameter of Crank pin 15.5 Size of Crank webs Built

Diameter of screw 18'-0" Pitch of screw 17'-6" No. of blades 4. State whether moveable Yes Total surface 104 sq. ft.

No. of Feed pumps 2. Diameter of ditto 4 1/2" Stroke 30" Can one be overhauled while the other is at work Yes

No. of Bilge pumps 2. Diameter of ditto 4 1/2" Stroke 30" Can one be overhauled while the other is at work Yes

No. of Donkey Engines 4. Sizes of Pumps 1 1/2" 8" x 10" x 21" No. and size of Suctions connected to both Bilge and Donkey pumps  
In Engine Room 3. 3 1/2" dia. 1 Duplex 10" x 6" x 10"  
do 4 1/2" x 2 1/2" x 14" In Holds, &c. 4. 3 1/2" dia. & tunnel or 1.3 1/2"  
1 Pulsometer.

No. of bilge injections 1. sizes 8 1/2" Connected to condenser, or to circulating pump Yes 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 bilge suction How are they protected wood box

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 on Works Is the screw shaft tunnel watertight Yes

Is it fitted with a watertight door Yes worked from top platform

**BOILERS, &c.** — (Letter for record (3)) Total Heating Surface of Boilers 7068 sq. ft.

No. and Description of Boilers 3. S.E. Mult-Rowling Am Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs

Date of test 18.6.95 Can each boiler be worked separately Yes Area of fire grate in each boiler 62.7 sq. ft. No. and Description of safety valves to each boiler 2. direct spring Area of each valve 13.36 Pressure to which they are adjusted 182 lbs Are they fitted with easing gear Yes Smallest distance between boilers or uptakes and bunkers or woodwork 20" Mean diameter of boilers 15'-0"

Length 11'-6" Material of shell plates Steel Thickness 1 7/16" Description of riveting: circum. seams d & tr. h. lap long. seams Butt double

Diameter of rivet holes in long. seams 1 7/16" Pitch of rivets 9" & 4 1/2" Lap of plates or width of butt straps 2 1/2"

Per centages of strength of longitudinal joint 84.8 Working pressure of shell by rules 195 lbs - Size of manhole in shell 12" x 16"

Size of compensating ring 34 x 30 x 1 7/16" No. and Description of Furnaces in each boiler 3. Adamsons Material Steel Outside diameter 46 3/4"

Length of plain part 20 1/2" Thickness of plates 5/8" Description of longitudinal joint welded No. of strengthening rings 4

Working pressure of furnace by the rules approved Combustion chamber plates: Material steel Thickness: Sides 5/8" Back 5/8" Top 9/16" Bottom 7/8"

Pitch of stays to ditto outs: 9 1/2" Sides 7 3/8" Back 8 1/4" Top 7 3/8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 198 lbs

Material of stays Steel Diameter at smallest part 1.59 Area supported by each stay 68.06 Working pressure by rules 195 lbs End plates in steam space: Material Steel Thickness 2 9/32" Pitch of stays 16 x 16 1/2" How are stays secured d. nuts Working pressure by rules 180 lbs Material of stays Steel

Diameter at smallest part 2.715 Area supported by each stay 268 Working pressure by rules 200 lbs Material of Front plates at bottom Steel

Thickness 1 3/16" Material of Lower back plate Steel Thickness 1 3/16" Greatest pitch of stays 12 1/2" Working pressure of plate by rules 180 lbs

Diameter of tubes 2 1/2" Pitch of tubes 3 1/8" x 3 3/4" Material of tube plates Steel Thickness: Front 1 3/16" Back 3/4" Mean pitch of stays 7 1/16"

Pitch across wide water spaces 13 1/2" Working pressures by rules 180 lbs by def. orders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 3/4" x 3 1/4" d. h. Length as per rule 28 1/2" Distance apart 5. Number and pitch of Stays in each 3. 7 3/8"

Working pressure by rules 190 lbs 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 —

If not, state whether, and when, and as a Report also sent on the Machinery of the Ship?

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