

REPORT ON MACHINERY.

No. 23314

Port of GlasgowReceived at London Office 11/5 DEC 1905No. in Survey held at Glasgow
Reg. Book.Date, first Survey 12th AprilLast Survey 14th Nov: 1905Sup. 63 on the Ste S. S. "Commandant"

(Number of Visits)

Gross 270
Net

Master

Built at GlasgowBy whom built Messrs J. S. S. & Co.When built 1905Engines made at GlasgowBy whom made Mr James Ritchie

(No 24)

when made 1905Boilers made at GlasgowBy whom made Messrs Young & Sawdon

(No 675)

when made 1905Registered Horse Power 56Owners Coasting Steamship Co. Ltd.Port belonging to GlasgowNom. Horse Power as per Section 28 56Is Refrigerating Machinery fitted for cargo purposes NoIs Electric Light fitted No

ENGINES, &c.—Description of Engines

CompoundNo. of Cylinders TwoNo. of Cranks TwoDia. of Cylinders 15" 32"Length of Stroke 24"Revs. per minute 125Dia. of Screw shaft 6.87"

as per rule

Material of IronIs 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

in the propeller boss YesIf the liner is in more than one length are the joints burned ✓

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 Solid m. shaft

liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush 2' 6" dia. riv.Dia. of Tunnel shaft 6.43"

as per rule

Dia. of Crank shaft journals 6.75"

as per rule

Dia. of Crank pin 7"Size of Crank webs 5" shape

Dia. of thrust shaft under

collars 7"Dia. of screw 7" 9"Pitch of screw 10' 6"No. of blades 4State whether moveable NoTotal surface 27.6No. of Feed pumps 1Diameter of ditto 3"Stroke 12"Can one be overhauled while the other is at work ✓No. of Bilge pumps 1Diameter of ditto 3"Stroke 12"Can one be overhauled while the other is at work ✓No. of Donkey Engines OneSizes of Pumps 6" x 4" x 6" Dup.

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room One 2"In Holds, &c. Fore peak 2" Hold 2" ✓No. of bilge injections 1sizes 2 1/2"Connected to condenser, or to circulating pump YesIs a separate donkey suction fitted in Engine room & size Yes 2"Are all the bilge suction pipes fitted with roses YesAre the roses in Engine room always accessible YesAre the sluices on Engine room bulkheads always accessible NoneAre all connections with the sea direct on the skin of the ship YesAre they Valves or Cocks Larger valves; smaller Cocks.Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates YesAre the discharge pipes above or below the deep water line AboveAre they each fitted with a discharge valve always accessible on the plating of the vessel YesAre the blow off cocks fitted with a spigot and brass covering plate YesWhat pipes are carried through the bunkers Inward suctionHow are they protected Wooden casingAre all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times YesAre the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges YesWhen were stern tube, propeller, screw shaft, and all connections examined in dry dock New hullIs the screw shaft tunnel watertight Mach. apt.Is it fitted with a watertight door ✓worked from ✓BOILERS, &c.—No. of Certificate 7832 (Letter for record S)Total Heating Surface of Boilers 1030'Is forced draft fitted NoNo. and Description of Boilers One Single ended.Working Pressure 130 lbTested by hydraulic pressure to 260 lbDate of test 27.10.05Can each boiler be worked separately ✓Area of fire grate in each boiler 42'

No. and Description of safety valves to

each boiler Two Direct SpringArea of each valve 9.62"Pressure to which they are adjusted 135 lbAre they fitted with easing gear YesSmallest distance between boilers or uptakes and bunkers or woodwork Seven ft.Mean dia. of boilers 11' 0"Length 10' 0"Material of shell plates SteelThickness 3/4"Range of tensile strength 27-32 tonsAre they welded or flanged NoDescrip. of riveting: cir. seams Single riv.long. seams Double shapeLap of plates or width of butt straps 14 3/4" x 5/8"Diameter of rivet holes in long. seams 15/16"Pitch of rivets 6" x 3"Working pressure of shell by rules 134 lbSize of manhole in shell 16" x 12"Per centages of strength of longitudinal joint 91.2plate 84.5Size of compensating ring 11" dia. pat.No. and Description of Furnaces in each boiler 2 MorrisonMaterial SteelOutside diameter 41 1/2"Length of plain part topThickness of plates bottomDescription of longitudinal joint WeldedNo. of strengthening rings ✓Working pressure of furnace by the rules 151 lbCombustion chamber plates: Material SteelThickness: Sides 9/16"Back 9/16"Top 9/16"Bottom 9/16"Pitch of stays to ditto: Sides 8 x 8Back 8 x 7 1/2"Top 9 x 8If stays are fitted with nuts or riveted heads NutsWorking pressure by rules 151Material of stays SteelDiameter at smallest part 1.27"Area supported by each stay 72"Working pressure by rules 141

End plates in steam space:

Material SteelThickness 27/32"Pitch of stays 16 x 15 1/4"How are stays secured Double nutWorking pressure by rules 130 lbMaterial of stays SteelDiameter at smallest part 3 3/4"Area supported by each stay 228"Working pressure by rules 150Material of Front plates at bottom SteelThickness 5/8"Material of Lower back plate SteelThickness 9/16"Greatest pitch of stays 15" wide sp.Working pressure of plate by rules 130Diameter of tubes 3 1/2"Pitch of tubes 5" x 5"Material of tube plates SteelThickness: Front 5/8"Back 13/16"Mean pitch of stays 10"Pitch across wide water spaces 15 1/2"Working pressures by rules 130 lbGirders to Chamber tops: Material Steel

Depth and

thickness of girder at centre 1 1/2" x 3/4"Length as per rule 28 5/8"Distance apart 9" x 6"Number and pitch of Stays in each Two at 8"Working pressure by rules 156Superheater 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

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

Lloyd's Register

Foundation

005311-005317-0210

23314
DONKEY BOILER— No. *Non* Description

Made at _____ By whom made _____ Date of test _____ 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:— *Two Top end & two bottom end connecting rod bolts. 2 Main bearing bolts. Set coupling bolts. Feed & bilge pump valves. Assorted bolts & nuts. Bolts & condenser tubes. Assorted iron & bolt & nuts.*

The foregoing is a correct description,

Manufacturer.

P. James Ritchie & Brownie

Dates of Survey while building { During progress of work in shops - - 1900: Apr 13. May 10. 20. Jun 19. 20. July 11. 12. 26. Aug. 2. 8. 14. 23. 24. 28. 29.
During erection on board vessel - - Sep 7. 12. 19. Oct 10. 11. 17. 23. 26. 27. 31. Nov. 2. 12. 14.
Total No. of visits 28

Is the approved plan of main boiler forwarded herewith No. _____

Boiler plan forwarded with report S.S. "Colonel" Hls Rep No. 23248

" " " donkey " " "

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

The engines & boiler have been made & fitted under special survey in accordance with the approved plan of the boiler. The workmanship is good. It is submitted that the vessel is eligible for the record of + L.M.C. 11.05 in the Register.

It is submitted that this vessel is eligible for THE RECORD H.L.M.C. 11.05

Paul

6.12.05

6.12.05

The amount of Entry Fee. £ 1 : - : When applied for, 4 DEC 1905
Special .. £ 8 : :
Donkey Boiler Fee .. £ : :
Travelling Expenses (if any) £ : : When received, 30 DEC 1905

Arthur L. Jones

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

Committee's Minute

Glasgow - 4 DEC 1905

Assigned

+ L.M.C. 11.05

MACHINERY CERTIFICATE

WRITTEN, 5-12-05



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