

REPORT ON MACHINERY.

Port of Glasgow.

No. in Survey held at Glasgow.

Date, first Survey 2 March 05 Last Survey 10 Jan 1906

Received at London Office TUES. 23 JAN 1906

Reg. Book.

on the S.S. KILCHATTAN.

(Number of Visits)

Master Built at Glasgow By whom built C. Bonnell & Co.

Tons } Gross
 } Net
When built 1906.

Engines made at Glasgow. By whom made Dunsmuir & Jackson Ltd. when made 1906.

Boilers made at Glasgow. By whom made do do when made 1906.

Registered Horse Power Owners Port belonging to Glasgow

Nom. Horse Power as per Section 28 382 1/2 Is Refrigerating Machinery fitted No

Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple expansion - Screw No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 25 1/2", 42", 68" Length of Stroke 45" Revs. per minute 75 Dia. of Screw shaft as per rule 13.8" Material of screw shaft iron

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 in 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 4" 8"

Dia. of Tunnel shaft as per rule 12.54" as fitted 12 1/8" Dia. of Crank shaft journals as per rule 13.2" as fitted 13 1/2" Dia. of Crank pin 13 1/2" Size of Crank webs 8 1/2" tk Dia. of thrust shaft under collars 13 1/2" Dia. of screw 16" 6" Pitch of screw 18" 0" No. of blades 4 State whether moveable yes Total surface 88 sq. ft.

No. of Feed pumps 2 Diameter of ditto 3 3/4" Stroke 24" Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work yes

No. of Donkey Engines 5 Sizes of Pumps 2 Weirs 8" x 6" x 21" - 4 1/2" x 3" x 6" 11" x 11" x 11" - 6" x 4 1/4" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Four 3" dia. In Holds, &c. Two 3" dia. in each Nos 1, 2, & 3 holds, One in No 4 hold, & tunnel well.

No. of bilge injections 1 sizes 5" Connected to condenser, or to circulating pump pump 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 none

Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks valves & cocks.

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 none 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 before launch Is the screw shaft tunnel watertight yes

Is it fitted with a watertight door yes worked from top platform.

BOILERS, &c.— (Letter for record (S) Total Heating Surface of Boilers 5712 sq. ft. Is forced draft fitted yes

No. and Description of Boilers Two single ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs

Date of tests 26/10/05 Can each boiler be worked separately yes Area of fire grate in each boiler 51.93 sq. ft. No. and Description of safety valves to each boiler 2 patent spring Area of each valve 8.29 sq. in. Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 15" 3" Length 12" 0" Material of shell plates steel

Thickness 13/32" Range of tensile strength 28 to 32 Are they welded or flanged no Descrip. of riveting: cir. seams endo-double long. seams treble

Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 9 5/8" Lap of plates or width of butt straps 1" 9"

Per centages of strength of longitudinal joint rivets 85 plate 89.6 Working pressure of shell by rules 207 lbs Size of manhole in shell 16" x 12"

Size of compensating ring McNeil's No. and Description of Furnaces in each boiler 3 Deighton Material steel Outside diameter 3" 11"

Length of plain part top } Thickness of plates crown } Description of longitudinal joint welded No. of strengthening rings yes bottom } bottom } 19" Working pressure of furnace by the rules 201 lbs Combustion chamber plates: Material steel Thickness: Sides 3/32" Back 5/8" Top 3/32" Bottom 15/16"

If not, state whether, and when, one will be sent? Is a Report also sent on the Hull of the Ship?

1200-5-03-Copyable Ink.

W961-0132

DONKEY BOILER— No. *One* Description *single ended, horizontal.*
 Made at *Glasgow* By whom made *Dunsmuir & Jackson Ltd* When made *1905* Where fixed *on main deck.*
 Working pressure *100* tested by hydraulic pressure to *200* lbs. No. of Certificate *7770* Fire grate area *30* ^{sq ft} Description of safety valves *patent spring*
 No. of safety valves *2* Area of each *5.94* Pressure to which they are adjusted *105* lbs. If fitted with easing gear *yes* If steam from main boilers can
 enter the donkey boiler *no* Dia. of donkey boiler *10' 6"* Length *9' 6"* Material of shell plates *steel* Thickness *5/8"* Range of tensile
 strength *28-32* Descrip. of riveting long seams *treble riv^d lap* Dia. of rivet holes *7/8"* Whether punched or drilled *drilled* Pitch of rivets *4 1/16"*
 Lap of plating *6 3/4"* Per centage of strength of joint Rivets *78* Thickness of shell *top end* plates *7/8"* Radius of do. *✓* Pitch *14 1/2" x 16"*
 Dia. of stays. *2 1/4" = 3.43* Diameter of furnace *Top 3' 3 1/2" Bottom ✓* Length of furnace *6' 1"* Thickness of furnace plates *9/16" plain* Description of
 joint *welded* Thickness of furnace crown plates *9/16"* Stayed by *✓* Working pressure of shell by rules *100* lbs.
 Working pressure of furnace by rules *118* lbs. Diameter of *tubes* *3"* Thickness of *uptake* plates *1/2" + 1/32"* Thickness of *water* tubes *1" + 5/8"*

SPARE GEAR. State the articles supplied:— *Two top end & two bottom end connecting rod bolts, two main bearing bolts, one set of coupling bolts, one set of feed & bilge pump valves, &c.*

The foregoing is a correct description,

Jas. P. Adam pro Manufacturer. *Dunsmuir & Jackson. Ltd*

Dates of Survey while building	During progress of work in shops - -	1905. Mar. 3. 10. 27. Apr. 5. 12. 20. 28. May 2. 9. 26. June 2. 13. 22. 28. July 3. 12.	
		During erection on board vessel - -	Aug. 17. 22. 28. Sep. 5. 19. 21. 20. Oct. 9. 16. 23. 26. Nov. 7. 9. 16. 21. 29. Dec. 5. 12. 19. 22. 1906. Jan. 1.
		Total No. of visits	<i>27</i>

Is the approved plan of main boiler forwarded herewith *yes.*
 " " " donkey " " " *yes.*

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery of this vessel has been constructed under Special Survey, the materials & workmanship are of good quality, it has been securely fitted on board tried under steam & found satisfactory.*
In my opinion, it is eligible to be classed in the Register Book with the record of L.M.C. 1.06.

It is submitted that this vessel is eligible for THE RECORD. *J.D.*
 + L.M.C. 1.06

R.S. *J.W.D.*
 23.1.06 23/1/06

The amount of Entry Fee.. £ *3* : : When applied for, *22 JAN 1906*
 Special £ *19* : *2* : :
 Donkey Boiler Fee £ : : :
 Travelling Expenses (if any) £ : : :
 When received, *25/1/06*

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

Committee's Minute *Glasgow 22 JAN 1906*

Assigned

L.M.C. 1.06.

MACHINERY CERTIFICATE WRITTEN. 23.1.06



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