

8097

No. 809<sup>y</sup>

No. in Survey held at Greenock  
Reg. Book.

Date, first Survey 11<sup>th</sup> May 1881 Last Survey 15<sup>th</sup> November 1881

on the *S. S. "Seign"* 12 24.07  
Tons 1147.77

Master Grand Built at Greenock When built 1881

Engines made at Greenock By whom made David & Co when made 1881

*Boilers made at* \_\_\_\_\_ *By whom made* \_\_\_\_\_ *when made* 1881

Registered Horse Power 150 Owners Messageries Maritimes de France Port belonging to Marseilles

NGINES, &c.—

Description of Engines *Compound Inverted Direct Acting*

Diameter of Cylinders 32 in 58 Length of Stroke 36 No. of Rev. per minute 42 Point of Cut off, High Pressure 23 Low Pressure 23

Diameter of Screw shaft 10 Diameter of Tunnel shaft 9 1/2 Diameter of Crank shaft journals 10 Diameter of Crank pin 10 size of Crank webs 10 1/2 x 10 1/2

No. of Feed pumps 2 diameter of ditto 4 3/8 Stroke 10 1/8 Can one be overhauled while the other is at work Yes

No. of Bilge pumps Two diameter of ditto 4<sup>3</sup>/<sub>8</sub> Stroke 18 Can one be overhauled while the other is at work No

Where do they pump from. Engine Room & Cargo Hold - all Stacks

No. of Donkey Engines one Size of Pumps 4" x 8" stroke Where do they pump from Sea. Hot well & bilges

*L. ...*

Are all the bilge suction pipes fitted with roses Yes Are the roses always accessible Yes Are the sluices on Engine room bulkheads always accessible Val  
No. of bilge injections 17 and sizes 2" Are they connected to 1 Are they connected to 1

How are the pumps worked by Lewis. No. 1 pump circulates the water

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 large pipe How are they protected wood casement

Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges Yes

When were stern tube, propeller, screw shaft, and all connections examined in dry dock on *U.S.S. Albatross* *Albatross*

Is the screw shaft tunnel watertight Yes and fitted with a sluice door yes worked from Deck

**OILERS, &c.**—

Number of Boilers .....

Working Pressure 80 lbs Tested by hydraulic pressure to 174 lbs per sq Date of test 27. 10. 81  
Description of superheating apparatus on steam chest See Page

Can each boiler be worked separately *Yes* Can the superheater be shut off and the boiler worked separately *No*

No. of square feet of fire grate surface in each boiler 60 sq. feet Description of safety valves Direct Spring

No. to each boiler Two area of each valve 12.56 sq Are they fitted with easing gear yes

No. of safety valves to superheater one area of each valve 7.06 sq are they fitted with easing gear yes

smallest distance between boilers and bunkers or woodwork 12 feet hold

Thickness of shell plates  $\frac{13}{16}$  diameter of rivet holes  $\frac{1}{2}$  whether punched or drilled  $\frac{1}{2}$  pitch of rivets  $1\frac{1}{2}$

ap of plating 12" *thick* per centage of strength of longitudinal joint  $\frac{7}{8}$  working pressure of shell by rules 8.3  $\frac{1}{2}$

size of manholes in shell  $15' \times 12'$  size of compensating rings  $5\frac{1}{2}' \times 3\frac{1}{4}'$

No. of Furnaces in each boiler Two Corrugated outside diameter 48 in Corrugated length, top 7.6 " bottom 9.10 "

thickness of plates 1/4 description of joint welded if rings are fitted no greatest length between rings —

Working pressure of furnace by the rules 91 lbs

itch of staves to ditto sides  $8\frac{3}{4} \times 8$  back  $8\frac{3}{4} \times 8$  top  $12 \times 8$

stays are fitted with nuts or riveted heads twisted points working pressure of plating by rules 84 lbs

diameter of stays at smallest part  $1\frac{1}{8}$  for sides & back  $1\frac{1}{4}$  for tops working pressure of ditto by rules 84 & 87 lbs

nd plates in steam space, thickness 3/4 pitch of stays to ditto 16 3/4" X 16 3/4" how stays are secured double nuts & washers

working pressure by rules 82 lbs diameter of stays at smallest part 2 1/4 working pressure by rules 85 lbs

front plates at bottom, thickness 16 Back plates, thickness 16 greatest pitch of stays 12 working pressure by rules 84 lbs

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Diameter of tubes  $3\frac{3}{4}$  pitch of tubes  $4\frac{1}{8} \times 4\frac{1}{8}$  thickness of tube plates, front  $3\frac{1}{4}$  back  $3\frac{1}{4}$   
 How stayed *Stay tubes* pitch of stays  $9\frac{1}{2} \times 9\frac{1}{2} \times 14\frac{1}{2}$  width of water spaces  $6$   
 Diameter of Superheater or Steam chest  $5\frac{1}{2}$  length  $14\frac{1}{2}$   
 Thickness of plates  $9\frac{1}{16}$  description of longitudinal joint *lap tubes* diameter of rivet holes  $1\frac{3}{16}$  pitch of rivets  $1\frac{1}{8}$   
 Working pressure of shell by rules  $118\frac{1}{2}$  Diameter of flue *no flue* thickness of plates —  
 If stiffened with rings — distance between rings — Working pressure by rules —  
 End plates of superheater, or steam chest; thickness  $5\frac{1}{8}$  How stayed *no stays*  
 Superheater or steam chest; how connected to boiler *by copper pipes*

**DONKEY BOILER—** Description *Round Upright*  
 Made at *Greenock* By whom made *Caird & Co.* when made *1881*  
 Where fixed *on Deck* working pressure *60 lbs* Tested by hydraulic pressure to *120 lbs* No. of Certificate *84*  
 Fire grate area *12 sq feet* Description of safety valves *Direct Spring* No. of safety valves *one* area of each *7.06 sq*  
 If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no*  
 Diameter of donkey boiler  $4\frac{1}{2}$  length *height 9.0* description of riveting *double in long seams & single in cir*  
 thickness of shell plates  $7\frac{1}{16}$  diameter of rivet holes  $1\frac{3}{16}$  whether punched or drilled *punched*  
 pitch of rivets  $2\frac{3}{4}$  lap of plating  $4\frac{1}{2}$  per centage of strength of joint  $70$   
 thickness of crown plates  $5\frac{1}{8}$  stayed by *three 1\frac{1}{2} in bars & Uptake*  
 Diameter of furnace, top  $3\frac{1}{2}$  bottom  $4\frac{1}{2}$  height *length of furnace 14.9*  
 thickness of plates  $7\frac{1}{16}$  description of joint *lap single*  
 thickness of furnace crown plates  $\frac{1}{2}$  stayed by *bars stays & Uptake*  
 Working pressure of shell by rules  $87\frac{1}{2}$  working pressure of furnace by rules  $45\frac{1}{2}$   
 diameter of uptake  $1\frac{1}{2}$  thickness of plates  $3\frac{1}{8}$  thickness of water tubes  $3\frac{1}{8}$  *Two tubes 8" diam*

The foregoing is a correct description,

*Caird & Co.* Manufacturer.

**General Remarks** (State quality of workmanship, opinions as to class, &c., *The Engines and Boilers were*  
*inspected during construction by Mr Alchin. and fitted on board and*  
*tested under steam by me. the workmanship in my opinion is of*  
*good quality. the Machinery and Boilers are now in good order and*  
*safe working condition and are in my opinion eligible to be noted in*  
*the Register Book* **LLOYD'S M.C. 11.81.**

*It is submitted that*  
*this record is eligible to*  
*have the notification*  
*& Lloyd M.C. recorded*  
*M. 29/11/81*

The amount of Entry Fee £ 3 : : , received by me,

Special .. £ 22 : 10 : ,

Certificate (if required) .. £ *Gratia* 25/11/1881

To be sent as per margin.

(Travelling Expenses, if any, £ )

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

Committee's Minute

Tuesday, November, 22<sup>nd</sup>. 1881.