

Rpt. 9

Lon No. 59955

Report of Survey for Repairs, &c., of Engines and Boilers.

(Received at London Office WED. 14 SEP 1896)

Date of writing Report	IS	When handed in at Local Office	IS	Port of	13.5.96 (see back)		
No. in Reg. Book	Survey held at	Callao	2/3/98	Date, First Survey	2/3/98	Last Survey	11.5.98
31.	on the Machinery of the Wood, Iron or Steel S. "Sarum"			Master	8. White	(No. of Visits)	18
Gross Tonnage	Vessel built at	West Hartlepool	By whom	Gray & Co.	When	JUNE 1886	
Net 1071	Engines made at	Central Works West Hartlepool	When	1886	Boilers, when made (Main)	1886 (Donkey)	
Registered Horse Power	Owners	Gray & Co.	Port	London	Voyage		
No. of Main Boilers	If Surveyed Afloat or in Dry Dock	Offshore	Particulars of Classification (which must be inserted precisely as in Register Book & Supplements)				
No. of Donkey Boilers	(State name of Dock.)		CHARACTER	As for Special Survey.	Machinery and Boiler		
Steam Pressure— in Main Boilers			Date of last Survey and of	Survey	Survey		
in Donkey Boilers			Periodical Surveys.		(Including date of N.B., if any)		
150 lbs.							
45 lbs.							

Last Survey No. 15619 Port Off

Particulars of Examination and Repairs (if any)

(Periodical Surveys, when held, must be reported in detail and serially in the terms of the Rules. State clearly the cause of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be briefly summarised at the end of the report. State also the dates and initials of any letters respecting this case.)

Did the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time?

Do. — " Donkey " "

If this was not done, state for what reasons?

And what parts of the Boilers could not be thus thoroughly examined?

Also what special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler?

Did the Surveyor examine the Safety Valves of the Main Boiler?

Did the Surveyor examine the Safety Valves of Donkey Boiler?

Has the propeller shaft been drawn and examined at this time?

If spare propeller shaft fitted, state whether new?

State the distance between ligum vitae of stern bush and top of after bearing of screw shaft?

If the Survey is not complete state what arrangements have been made for its completion and what remains to be done?

I, the undersigned, at the request of the late George Ester, Lloyd's Agent at Lima proceeded on board the British tank steamer "Sarum" on the following dates:

1/3/98 Main Boilers. Surveyed main boilers: externally the shell & mountings in good condition: internally shell, tubes, furnaces, and combustion chambers are in a fair condition with perceptible trace of a slight deterioration: condemned the following stays owing to their not being safe at the pressure that carries the boiler; viz:

Starboard Boiler, One main and four combustion chamber stays. Starboard combustion chamber.

(1) Starboard wing top row 3rd from after end. (2) back of same 2nd row from starboard wing 3rd from top.

(3) 2nd row from bottom 1st row from starboard wing. Port combustion chamber.

(4) port wing 6th row + 5th down. (5) back 2nd row from starboard side + 5th down.

Main stay. 1st stay on top row counting from starboard side.

Port Boiler Three main & eight combustion chamber stays.

Main stays 2 on port wing, 1st from port side. Starboard combustion chamber

(1) starboard wing, after row, 6th down. (2) back 6th row from starboard side 3rd down.

(3) back 6th row from starboard side 4th down. (4) 4th row from starboard side 5th down.

Port combustion chamber. (5) 4th row from starboard side 4th down. (6) 4th row from starboard side 5th down.

General Observations, Opinion, and Recommendation:

(State clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.: thus, for example, B.S. 0.97, H.A.M.S. 0.97 or S.L.M.C. 0.97, 140 lbs. F.D., &c.)

Office or Registration Fee (per Sec. 27) £
 Survey Fee (per Section 28) £
 Special Damage Fee (per Section 28) £
 Travelling Expenses (if chargeable) £

Fees applied for

18

\$ 105 Soles Payment

Received by me,

18

59955: Lon

(1) 4th row from starb^d side 5th down & 4th row from starb^d side 6th down
All the above have been condemned owing to their being very badly corroded away
and as I have already stated are not safe to the pressure boilers were then carrying.
1/3/98. Surveyed and examined the four new combustion chamber stays fixed / at the
old size 1 $\frac{1}{4}$ " with nuts on both ends, inside and outside of the shell, these four
stays replaced those in first combustion chamber of port boiler which were the most
corroded. The Captain in view of the slowness of the work caused by not finding
a suitable tap either in Lima or Callao & in view that the making of one would
take as long as a trip to Yabara and back from where he was called solicited of
me to have the steam pressure reduced to answer to Lloyds rules for the then
condition of the boiler, which I did reducing from 150 lbs (when left England)
to 135 lbs pressure per square inch. The safety valves blew & carried off steam in a
satisfactory manner at the above reduced pressure.

4th to 13th/5/98. On the "Galini" return & frequently during these dates I examined
at the work of renewing the stays proceeded, finding other five more chamber stays
in want of renewing in starboard boiler, which were renewed as well as the others
in a very satisfactory way. The new stays have been increased in diameter making
a far more substantial job. The main stays were altered from 2" to 2 $\frac{1}{2}$ " and the
combustion chamber stays from 1 $\frac{1}{4}$ " to 1 $\frac{1}{2}$ " these were screwed through shell of boiler
and of combustion chamber and then secured outside as well as inside with nut
same as the previous four in March. I may say that the old ones were only
riveted. Tested the boiler up to 150 lbs pressure, when the safety valves blew
and carried off steam in a satisfactory manner at that pressure.

Donkey Boiler.

3/8/98. Tested safety valve whilst under steam to go the pressure.

9/3/98 Examined internally where I found the stays slightly deteriorated, but shell,
furnace and combustion chambers are in a fair condition.

11/3/98 Reduced safety valve from 90 lbs (as when left England) to 45 lbs pressure
per square inch in view of the present condition of donkey boiler.

Considering therefore that the boilers are in a very satisfactory condition I have no
hesitation in certifying that they fulfill the requirements for the above
classification in Lloyd's Register.

This original for
C.O.R.D. No. 1/59955
is to be noted 75/98
Date 14/6/98



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Lloyd's Register
Foundation

Rpt. 9

Lon No. 59055a

Report of Survey for Repairs, &c., of Engines and Boilers.

(Received at London Office WED. 14 SEP 1898)

Date of writing Report	IS	When handed in at Local Office	IS	Port of		
No. in Reg. Book.	Survey held at	Callao	2/3/98	Date, First Survey	2/3/98	Last Survey
				(No. of Miles)	135.96 (seabulk)	
31.	on the Machinery of the Wood, Iron or Steel S. S. <u>Saturn</u>			Master	113.96 18	
Gross Tonnage	Net	Vessel built at	Well Hartfurd	By whom	Stay 100	
Registered Horse Power	203	Engines made at	Central Works Well	When	1886	
No. of Main Boilers	2	Owners	Alma Hartfurd	Boilers, when made (Main)	1886 (Donkey)	
No. of Donkey Boilers	1	If Surveyed Afloat or in Dry Dock	Afloat	Port	London Voyage	
Steam Pressure— in Main Boilers	15 lbs.	(State name of Dock.)				
in Donkey Boilers	45					

Last Survey No. 15619 Port Off

Particulars of Examination and Repairs (if any)

(Periodical Surveys, when held, must be reported in detail and serially in the terms of the Rules. State clearly the cause of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be briefly summarised at the end of the report. State also the dates and initials of any letters respecting this case.)

Did the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time?

Do.

Donkey

If this was not done, state for what reasons?

And what parts of the Boilers could not be thus thoroughly examined?

Also what special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler?

Did the Surveyor examine the Safety Valves of the Main Boiler?

Yes

At what pressure were they afterwards adjusted under steam?

150 lbs.

Did the Surveyor examine the Safety Valves of Donkey Boiler?

Yes

To what pressure were they afterwards adjusted?

45 lbs.

Has the propeller shaft been drawn and examined at this time?

If spare propeller shaft fitted, state whether new?

State the distance between lignum vitreum stern bush and top of after bearing of screw shaft?

If the Survey is not complete state what arrangements have been made for its completion and what remains to be done?

I, the undersigned, at the request of the late George Eaton Lloyd's Agent at Lima proceeded on board the British tank steamer "Balkum" on the following dates:

2/3/98 Main Boilers. Surveyed main boilers: externally the shell & mountings in good condition: internally shell, tubes, furnaces, and combustion chambers are in a fair condition with perceptible trace of a slight deterioration: condemned the following stays owing to their not being safe at the pressure that carries the boiler; viz:

Starboard Boiler. One main and five combustion chamber stays. Starboard combustion chamber.

- (1) Starboard wing top row 3rd from after end (2) back of same 2nd row from starboard wing & 4th from top.
- (3) 2nd row from bottom 1st row from starboard wing. Port combustion chamber.
- (4) front wing 6th row & 5th down (5) back 2nd row from starboard side & 5th down.

Main stay. 1st stay on top row counting from starboard side.

Port Boiler. Three main & eight combustion chamber stays.

Main stays 2 on front wing 1st from port side. Starboard combustion chamber

(1) starboard wing after row 6th down. (2) back 5th row from starboard side 3rd down.

(3) back 6th row from starboard side 4th down. (4) 4th row from starboard side 5th down.

Port combustion chamber. (5) 4th row from starboard side 4th down (6) 4th row from starboard 5th down.

General Observations, Opinion, and Recommendation:

(State clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.: thus, for example, H.S. 0.97, H.A.M.S. 0.97 or Q.L.H.C. 0.97, 140 lbs., F.D., &c.)

Office or Registration Fee (per Sec. 27) £

Fees applied for

Survey Fee (per Section 28) £

10

\$ 105 Soles Peruvian

Special Damage Fee (per Section 28) £

Received by me,

Travelling Expenses (if chargeable) £

10

James Russell Chief Engineer
Lloyd's Register of Shipping

© State if Certificate is required

Committee's Minute

FRI. 16 SEP 1898

Assigned

155.96 as per
Note pressure
by [unclear]

59955 : Lon

(1) 4th row from starb^d side 5th down (2) 4th row from starb^d side 6th down
All the above have been condemned owing to their being very badly corroded away
and as I have already stated are not safe to the pressure boiler were then carrying.
4/3/98. Surveyed and examined the four new combustion chamber stays fixed (at the
old size 1½") with nuts on both ends, inside and outside of the shell, these four
stays replaced those in first combustion chamber of port boiler which were the most
corroded. The Captain in view of the slowness of the work caused by not finding
a suitable tap either in Lima or Callao & in view that the making of one would
take as long as a trip to Gabara and back from where he was called solicited of
me to have the steam pressure reduced to answer to Lloyd's rules for the then
condition of the boiler which I did reducing from 150 lbs (when left England)
to 135 lbs pressure per square inch. The safety valve blew & carried off steam in a
satisfactory manner at the above reduced pressure.

4th to 13th 1/5/98. On the "Balmain" return & frequently during these dates I examined
at the work of renewing the stays proceeded, finding other five more chamber stays
in want of renewing in starboard boiler, which were renewed as well as the others
in a very satisfactory way. The new stays have been increased in diameter making
a far more substantial job. The main stays were altered from 2" to 2½" and the
combustion chamber stays from 1½" to 1½" these were screwed through shell of boiler
and of combustion chamber and then secured outside as well as inside with nut
same as the previous from in March. I may say that the old ones were only
riveted. Tested the boilers up to 150 lbs pressure when the safety valve blew
and carried off steam in a satisfactory manner at that pressure.

Dorsey Boiler.

1/3/98. Tested safety valve whilst under steam to go the pressure.

9/3/98 Examined internally where I found the stays slightly deteriorated, but shell,
furnace and combustion chambers are in a fair condition.

11/3/98 Reduced safety valve from 90 lbs (as when left England) to 45 lbs pressure
per square inch in view of the present condition of dorsey boiler.

Considering therefore that the boilers are in a very satisfactory condition I have no
hesitation in certifying that they fulfill the requirements for the above
classification in Lloyd's Register.

It is submitted that

this vessel is eligible for
THE RECORD. B. 159 P

to be noted 75/11
1/30/98

1/4/99 AY

S. B. pressure
R. H.