

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

Date of writing Report	6-10	to 15	when handed in at Local Office	Date, First Survey	31/9/15	Last Survey	3/10/15	TUE 12 OCT 1915
No. in Reg. Book	Survey held at LISBON		Port of LISBON	Master	J. W. Rose	1915	1915	2nd Oct 15 3/10/15
2004	on the Machinery of the KRAUTZSCHER STEEL CO. A. M. S. P. "STETTIN"		Date, First Survey	31/9/15	Last Survey	3/10/15	1915	2nd Oct 15 3/10/15
Tonnage	Gross 876	Net 528	Vessel built at Glasgow	By whom	Barclay, Curle & Co	When 1864	11mo	1915
Registered Horse Power	12		Engines made at Leith	By whom	Hawthornes & Co	When	N.E. 75 Tpd. 18Q	
No. of Main Boilers	1		Boilers, when made (Main) 1889.	(Donkey)	1889.			
No. of Donkey Boilers	1		Owners Leith, Hull & Ham. S.P.C. Ltd., Port Leith	Voyage	Seville & imp. Ports			
Steam Pressure in Main Boilers	150		If Surveyed Afloat or in Dry Dock Afloat		& U.K.			
In Donkey Boilers	50		(State name of Dock)					

Last Report No. 67857 Port New

Particulars of Examination and Repairs (if any) Dam. & Perm. Rep.

(Periodical Surveys, when held, must be reported in detail and variation 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 summarized at the end of the report. State also the dates and initials of any letters respecting this case.)

In damage cases where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose, and why they were declined?

Was a damage report made by anyone else? If so, by whom?

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?

As 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?

To what pressure were they afterwards adjusted under steam?

Did the Surveyor examine the Safety Valves of Donkey Boiler?

To what pressure were they afterwards adjusted under steam?

Did the Surveyor examine all the manholes, doors and their fastenings of the Main Boilers?

, and of the Donkey Boiler?

Did the Surveyor examine the drain plugs of the Main Boilers?

, and of the Donkey Boiler?

Did the Surveyor examine all the mountings of the Main Boilers?

, and of the Donkey Boiler?

Has screw shaft now been drawn and examined?

Is it fitted with continuous liner? or two liners? or is it without liners?

Has shaft now been changed? If so, state reasons

Is the shaft now fitted new? Has it a continuous liner? or two liners? or is it without liners?

State the distance between ligament vise 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?

COMPLETION

At the request of the Agents & Master I proceeded on board the above named vessel, while moored to a buoy in midstream off Caes do Sodré to survey & report on the damage sustained to this ship, while on her voyage to Sevilla with a cargo of coal & coke, she having fractured her thrust shaft on the 22nd inst., south of Cap Finisterre and was able under easy steaming to reach Lisbon, at which Port she arrived on the 25th September, all as reported by Captain.

(For further particulars see Log-Book)

On descending into engine room I found thrust shaft broken aft of forward collar and to enable the vessel to proceed, recommended the following permanent repairs to be effected at this Port:

Broken shaft to be taken afloat & sent on shore along with cast iron thrust block, shoes etc., & a new thrust shaft to be made & fitted with spigot at either end (as first tunnel bearing is a considerable distance from after main bearing of engines & no bearing exist on fore or after

General Observations, Opinion, and Recommendation: - I am therefore of opinion that this

(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. 0.11, B.M.M.S. 0.11, or G.L.M. 0.11, &c.)

vessel's machinery having been permanently repaired she be allowed to sail as now classed in the Reg. Book without fresh record of survey.

Survey Fee (per section 78).

Special Damage or Repair Fee (if any) (per section 78).

Total Sunday & night work (including Expenses of charwoman)

£ 20. 0. 0

£ 7. 10. 0

Fees applied for
4 Oct 15 £27:10:0

Received by me

W.H. Payne

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 15 OCT 1915

FRI APR 26 1916

Assigned

notified

as per Agent

as per
Agent
whole unit



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Lloyd's Register
Foundation

end of this thrust block) & thrust block trued up in lathe & shoes refitted. Crank shaft to be examined throughout & lifted to allow of examination of bottom half brasses of main bearings & the whole of this vessel's shafting lined up true throughout & any further damage that may be found, made good.

This done I again proceeded on board & found that crank shaft was down 1/32" at No.1 bearing so had bearings lined up trued & shaft rebedded. After end of crank shaft was recessed $\frac{1}{2}$ " deep by 3" in diameter to receive one of the spigot ends of the new thrust shaft & the same was done to fore end of first tunnel shaft for the same purpose but when a $\frac{3}{8}$ " hole was bored, for a guide, a flaw showed itself extending into the shaft or flange of shaft longitudinally about $1\frac{1}{2}$ " deep, so the whole was continued & as the flaw extended hole was tapped & plugged to allow of the recess being made true; but as this shaft has stood the strain so many years, it was decided to take no further notice, the small hole seen in the centre of the shaft being immaterial. New thrust shaft was made out of an old piece of a crank shaft belonging to one of the Portuguese mail boats, the broken thrust shaft being only 4" long by $10\frac{1}{2}$ " in diameter & the piece of crank being 15" in diameter with about a 28" flange at one end which allowed of all the old coupling holes being turned off flange remained $19\frac{1}{2}$ " in diameter, the same as flange on crank shaft of this vessel's engine & the flange of the tunnel shaft being 15" diameter, this old shaft came in splendidly, after having 12" taken off in length & reduced to $10\frac{1}{2}$ " for the collars & 8" at the smallest part. This done, shafting were coupled together & holes rhimered & parallel bolts fitted at either end after which the whole of the shafting was coupled together & engines tried under steam when I found that everything worked to my entire satisfaction & perfectly cool.