

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

(Received at London Office)

FRI. DEC 28 1900

Date of writing Report.	When handed in at Local Office	27 DEC 1900	Port of Newcastle
No. in Book.	Survey held at	Newcastle	Date, First Survey Oct 26 Last Survey Dec 19 ¹⁹⁰⁰
1075	on the Machinery of the	Steel % "Murex"	Master Halliday
Gross 3564	Net 2329	Vessel built at West Hartlepool By whom W. Gentry & Sons Ltd When 1892-7	(No. of Visits) 18
Registered 324	Power 324	Engines made at West Hartlepool When 1892 Boilers, when made (Main) 1892 (Donkey) 1899	YEAR. MONTH.
s. of Main Boilers 3	s. of Donkey Boilers 2	Owners Shell Transport & Trading Co. Port London Voyage Batoum	
steam Pressure in Main Boilers 160 ft	steam Pressure in Donkey Boilers 100 ft	If Surveyed Afloat or in Dry Dock Wallsend Dock	Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).
		(State name of Dock.)	CHARACTER for Special Survey, Date of last Survey and of Periodical Surveys

CHARACTER for Special Survey, Date of last Survey and of Periodical Surveys	Year Assigned or Entered	Machinery and Boiler Surveys (including date of N.B., if any)
+ 100 A1 11-99		+ LMC 11-96 138 6-99
Carrying petrol in bulk SS Cen No. - 96		

Last Survey No. Port

Particulars of Examination and Repairs (if any) Comp SS No 24 All-

Periodical Surveys, when held, must be reported in detail and verbatim 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.Do the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? No

Do. " Donkey " " " yes

This was not done, state for what reasons? See Hamburg report - No 5948

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

Do 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?

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

yes To what pressure were they afterwards adjusted under steam? 165 ft

Do the Surveyor examine the Safety Valves of Donkey Boiler?

yes To what pressure were they afterwards adjusted under steam? 100 ft

Has the propeller shaft been drawn and examined at this time? No If spare propeller shaft fitted, state whether new?

Is the distance between lignum vitae of stern bush and top of after bearing of screw shaft? $\frac{1}{8}$

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

Vessel placed in Wallsend graving dock. Propeller, sea fastening and connections examined, also cylinders, pistons slide valves, pumps and condenser & sea connections all opened out & examined.

Repairs - New piston rods fitted to HP & MP, LP rod skinned up in lathe & glands rebrushed. All valve spindles skinned up & glands rebrushed. New packing rings fitted to LP cylinders. Pumps overhauled & new feed rams fitted. All steam pipes (main) taken off annealed & tested by hydraulic test to 320 ft.

Two donkey boilers safety valves, also safety valves of main boilers all examined. Patch fitted on furnace also on boiler shell of port-boiler where wasted, new safety valves fitted to stb boiler. 37 screwed steps in main boilers renewed. Boilers all tested under steam & adjusted as above.

Oil fuel The main & donkey boilers have been fitted to burn oil fuel with ^{Elliott & Rudolph system} burners. The oil fuel will be carried in

General Observations, Opinion, and Recommendation: - The machinery of this vessel is now in safe working condition & eligible in my opinion to receive the record of + LMC 9-00 as recommended in the Hamburg report No 5948.

To or Registration Fee (per Sec. 27)	£ 1 . 1 .	Fees applied for
Survey Fee (per Section 28)	£ 3 . 10 .	27 DEC 1900
Partial Damage Fee (per Section 28)	£ 1 . 7 .	
Rolling Expenses (if chargeable)	£ 3 . 9 .	Received by me,
		31/12/00

Is a Certificate required?

Committee's Minute

THURS. JAN 1 1901

Signed

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

Insert Character of Ship and Machinery precisely as in the Register Book.

* Certificate to be sent to

+ LMC 9-00 fitted for burning liquid fuel

Port of Newcastle-on-Tyne. Continuation of Report No. 41033 dated 27 DEC 1900 on the

8% "Murex"

in the ballast tanks under the engines & boilers, also the peaks & cofferdams. The oil to be used is Borneo oil of a flash point not less than 200° F

Insulation — The boilers are covered with insulating composition. The tank top under the boilers is covered with 3" of cement the cement being held in its place by bars on the tank top placed 4-5" apart.

Pumping Arrangement — A well is formed at the fore side of the after peak bulkhead in the engineroom, also at the after side of the after cofferdam in the stokhold, to take up any leakage of oil fuel. Suctions are led to these wells from the oil fuel donkeys direct. The ordinary pumping arrangement is quite separate from the oil fuel pumping system! The connections for the feed donkeys to ballast tanks has been cut off. Two Worthington duplex pumps $4+2\frac{3}{4}+4$ " have been fitted in stokhold, to pump oil fuel from tanks & oil wells up to settling tanks or overboard as required. A separate Worthington duplex pump $2\frac{3}{4}+4$ " has been fitted on the tank top in the fore peak for the purpose of pumping out the fore hold. A drain pipe has been fitted to carry any leakage from settling tanks to oil wells.

Evaporators Two Morrison's evaporators 16 ton capacity have been fitted, in addition to one 12 ton already on board, to make up the loss of water due to spraying the oil by steam.

Air pipes — Air pipes have been fitted to all oil fuel tanks the pipes being carried well up above the decks. The oil fuel installation has been fitted in accordance with the approved plans and as previously approved in the 8% "Cowrie" & 8% "Lunch" Newcastle reports N 40109-40466

The vessel left here burning coal, the oil fuel arrangement will be refitted at Suoy about the middle of January 1901.

R. Haig