

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

(Received at London Office)

Date of writing Report 18 _____ When handed in at Local Office 18 _____ Port of Glasgow

No. in Reg. Book 320 Survey held at Glasgow Date, First Survey 20th Sept^r Last Survey 16th Oct^r 1893

on the Machinery of the Wood, Iron or Steel Twin S.S. River Indus Master Scott (No. of Visits) _____

Tonnage { Gross 3452 Vessel built at Belfast By whom Wattman & Co When 1884-10
 Net 2285

Registered Horse Power 360 Engines made at Glasgow When 1884 Boilers, when made (Main) 1884 (Donkey) 1884

No. of Main Boilers Two Owners S.S. River Indus Port Glasgow Voyage Cape & Africa

Steam Pressure in Main Boilers 90 lbs If Surveyed Afloat or in Dry Dock Glasgow Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

in Donkey Boiler 80 lbs (State name of Dock.)

CHARACTER for Special Survey, Date of last Survey and of Periodical Surveys.	Years Allowed now expired.	Machinery and Boiler Surveys (including date of N.B., if any).
<u>+10001-5-92</u>		<u>LMC 10-89</u>
<u>SS Glasgow 89</u>		<u>BS. 4-92</u>

Last Survey No. _____ Port _____
 Particulars of Examination and Repairs (if any) Special

Periodical Surveys, when held, must be reported in detail and seriatim in the terms of the Rules. State clearly the nature 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? Yes

Do. " Donkey " " " Yes

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 found in good order

At what pressure were they afterwards adjusted under steam? 80 lbs

Did the Surveyor examine the Safety Valves of Donkey Boiler? Yes found in good order

At what pressure were they afterwards adjusted? 40 lbs no more being required

If the Survey is not complete state what arrangements have been made for its completion? On the arrival of the vessel in Bonow, which will be in a few days.

Examined cylinders pistons slide valves pumps & shafting of both Port & Starboard engines, found flaw in L.P. Crank web of Port engine, recommended a new crank. H.P. Pistons of both Port & Starboard engines slack in cylinders, it has been arranged to fit cast iron rings over these pistons fitted with Rambottom rings. Main boiler, circumferential seams leaky, covering plates fitted where necessary, one new stay in steam space of Starboard Donkey Boiler. Bottom & lower part of back plate of Combustion Chamber renewed, when in dry dock both propeller shafts were found in good order, a flaw was found in end of Port shaft a new end has now been forged on. ^{two new propellers have been fitted.} All the cracks examined & found in good order. The crank shaft & piston rings not being ready when the vessel sailed, it has been arranged with the owner to have these fitted on the vessel's arrival at Bonow.

General Observations, Opinion, and Recommendation:— The machinery of this vessel is now in safe working condition and in my opinion eligible to have notification L.M.C. 10-93 when the new crank shaft & piston rings have been fitted.

Office or Registration Fee (per Sec. 27) £ : :
 Survey Fee (per Section 28) £ 5:10 : :
 Special Damage Fee (per Section 28) £ : :
 Travelling Expenses (if chargeable) £ : :
 Fees applied for 18/10/1893
 Received by me, 20/10/1893

FRIDAY 15 FEB 1895
 FRI. 20 MAY 1893
 A. McKeand
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.
 FRI. 22 FEB 1895

*State if Certificate is required _____
 Committee's Minute TUES. 24 OCT 1893
 Assigned Deferred for completion
White Barron

FRI. MAR 20 1896
 FRI 10 NOV 1893
 FRI. 30 AUG 1895
 FRI. 22 NOV 1895
 FRI. 16 OCT 1896
 FRI. 6 JUL 1894
 FRI. 13 JUL 1894
 TUES. 4 DEC 1894
 TUES. 21 DEC 1897
 Lloyd's Register
 FOUNDATION
 GLS168-0178