

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

No. 73957  
See also Particulars Book

(Received at London Office) THU. DEC. 23 1920

of writing Report 13th Dec 1920 When handed in at Local Office 14th Dec 1920 Port of NEWCASTLE-ON-TYNE  
 in Survey held at Jarvis on Tyne Date, First Survey 13th Oct Last Survey 10th Dec 1920  
 on the Machinery of the Wood, Iron or Steel Lord Broughton PATMON Master (No. of Visits 24)  
 Gross 1907 Vessel built at Rostock By whom Sk't Geo. Repton When 1902  
 Net 1209 Engines made at do By whom do When 1902  
 Main Boilers 2 Boilers, when made (Main) 1902 (Donkey) None  
 Donkey Boilers None Owners Byron S S Co Ltd Port London Voyage  
 Main Boilers 175 If Surveyed Afloat or in Dry Dock Both  
 Donkey Boilers ✓ (State name of Dock) Messantile Dry Dock

Report No. \_\_\_\_\_ Port Examination  
 Particulars of Examination and Repairs (if any) for Classing

Special 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 those being detailed in the body of the report, should be briefly summarised at the end of the report. State also the date and initials of any letters respecting this case.

CHARACTER. * for Special Survey. Date of last Survey and of Periodical Surveys.	Years Assigned now expired.	Machinery and Boiler Surveys (including date of N.B., if any).
✓		<u>Class. continued plates L M C 12-20</u>

Special 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? yes  
 " " Donkey " " " None  
 If not done, state for what reasons? ✓  
 What parts of the Boilers could not be thus thoroughly examined? ✓  
 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 To what pressure were they afterwards adjusted under steam? 180 lbs per sq. in.  
 " " " " " ✓ To what pressure were they afterwards adjusted under steam? ✓  
 Did the Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? yes , and of the Donkey Boiler? None  
 " " " " " None , and of the Donkey Boiler? do  
 Did the Surveyor examine all the mountings of the Main Boilers? yes , and of the Donkey Boiler? do  
 Has the screw shaft now been drawn and examined? yes Is it fitted with continuous liner? no or two liners? no or is it without liners? yes  
 Has the shaft now been changed? no If so, state reasons ✓  
 Has the shaft now fitted new? white metal Has it a continuous liner? ✓ or two liners? ✓ or is it without liners? ✓  
 What is the distance between the top of stern bush and top of after bearing of screw shaft? 1/16" bare

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

Examined the propeller, propeller shaft, stern bush (Cedronal type) see Particulars Book their fastenings, the cylinders, pistons, slide valves, crank, thrust and main shafts, air, circulating, bilge, feed pumps, condensers, ballast and coal service pumps, steam steering gear & windlass. A new cast iron 3" diameter piece has been fitted to forward bilge pump & the machinery generally put in good working order.

Calculated the 2 main boilers, their superheaters, their safety valves & mountings & weighed & compared the scantlings with the approved plan. Recommended that following repairs be carried out. Port furnace of port boiler to be jacked up, 2 manhole doors to be built up by electric welding to fit the manholes and fire at stay tubes to be replaced by new ones, a few superheater elements to be omitted, new end checks to fit & 1/2 check valves to renew and these recommendations have been carried out.

General Observations, Opinion, and Recommendation:— The machinery of this vessel is in my opinion in good condition, and is in my opinion eligible for record L M C 12-20, and propeller shaft class 12-20. 2 B 75 15 lbs. in register book.

Fees (per Section 95) \_\_\_\_\_ Fees applied for \_\_\_\_\_  
 Special Damage or Repair Fee (if any) (per Section 98.) \_\_\_\_\_  
 Printing Expenses (if chargeable) \_\_\_\_\_  
 Received by me, \_\_\_\_\_

George Murdoch 2019  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute \_\_\_\_\_  
 Signed \_\_\_\_\_  
 FRI. JAN. 7 1921  
 L M C 12-20

FRI. FEB 11 1921  
 Lloyd's Register Foundation

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

If so, to be sent to \_\_\_\_\_

W1132-0048

Date of writing Report  
 No. in Survey he  
 Reg. Book.  
 67477 on the  
 Master  
 Engines made at  
 Boilers made at  
 Registered Horse P  
 Nom. Horse Power

ENGINES, &c.  
 Original Eng  
 Dia. of Cylinders  
 Is the screw shaft

in the propeller be  
 between the bearing  
 liners are fitted, is  
 Dia. of Tunnel shaft  
 collars 10 7/8" Dia

No. of Feed pumps  
 No. of Bilge pumps  
 No. of Donkey Eng  
 In Engine Room  
 one 2 1/2"

No. of Bilge Injection  
 Are all the bilge suct

Are all connections  
 Are they fixed suffici

Are they each fitted  
 What pipes are can

Are all Pipes, Cock  
 Are the Bilge Suct

Is the Screw Shaft  
 BOILERS, &c

Total Heating Su  
 Working Pressur

Can each boiler be  
 each boiler 2 1/2"

Smallest distance bet  
 Thickness 1 3/4"  
 Double straps  
 long seams  
 outer and 6"

Per centages of stre

Size of compensating

Length of plain pa  
 Working pressure of

Pitch of stays to di  
 Material of stays

Material Steel  
 Diam  
 at smallest  
 Thickness 29/32 M

Diameter of tubes  
 Pitch across wi

thickness of girder  
 Working pressure

Diameter  
 Pitch of rivets

UPERHEAT  
 Date of Test  
 Diameter of Safety

N.B.—If this Report is copied by Copying Press, especial care must be taken that the copying paper is not so much damped as to spread the ink, or to cause it to show through to the other side.

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

