

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

No. 73957

(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 Jarrow on Tyne Date, First Survey 13th Oct Last Survey 10th Dec 1920  
17 on the Machinery of the Wood, Iron or Steel Lord Broughton Master Thompson  
 Gross 1907 Vessel built at Rostock By whom St 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 do  
 Pressure 175 If Surveyed Afloat or in Dry Dock Both  
 Donkey Boilers ✓ (State name of Dock) Queantite 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 serially 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 the 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.

Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

CHARACTER.  
 \* for Special Survey.  
 Date of last Survey and of Periodical Surveys.

Machinery and Boiler Surveys (including date of N.B., if any).

Image 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? ✓

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

" Donkey " " " None

was 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? ✓

Surveyor examine the Safety Valves of the Main Boiler? yes To what pressure were they afterwards adjusted under steam? 180 lbs per sq in

Surveyor examine the Safety Valves of Donkey Boiler? ✓ To what pressure were they afterwards adjusted under steam? ✓

Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? yes and of the Donkey Boiler? None

Surveyor examine the drain plugs of the Main Boilers? None and of the Donkey Boiler? do

Surveyor examine all the mountings of the Main Boilers? yes and of the Donkey Boiler? do

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

Shaft now been changed? no If so, state reasons ✓

Shaft now fitted new? white metal Has it a continuous liner? ✓ or two liners? ✓ or is it without liners? ✓

the distance between datum line of stern bush and top of after bearing of screw shaft? 1/16" bare

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 (Cedernal type) see B.S. their fastenings, the cylinders, pistons, slide valves, crank, thrust and pinion shafts, air, circulating, bilge & feed pumps, condensers, salt and water service pumps, steam steering gear & windlass. A new cast iron 3 1/2 piece has been fitted to forward bilge pump & the machinery generally put in good working order.

On the 2 main boilers, their superheaters, their safety valves & mountings & gages & compared the settings 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 jointed, new end checks to fit & 2 check valves to renew and these recommendations have been carried out.

General Observations, Opinion, and Recommendation: — The machinery of this vessel

is in good condition, and is in my opinion eligible for record L M C 12-20, and propeller shaft L M C 12-20. 2 B.S.

15 lbs. in register book.

Fees applied for 10  
 Received by me, 10  
 George Hurdoch  
 Engineer Surveyor to Lloyd's Register of Shipping.

FRI. JAN. 7 1921

FRI. FEB 11 1921

Lloyd's Register Foundation

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

Is a Certificate required? If so, to be sent to.

W1132-0048

Rpt. 4.

Date of writing Report

No. in Survey he  
Reg. Book.

65477 on the

Master

Engines made at

Boilers made at

Registered Horse P

Nom. Horse Power

ENGINES, &c

Original En

Dia. of Cylinders

Is the screw shaft

in the propeller b

between the bearing

liners are fitted, is

Dia. of Tunnel shaft

collars 10 7/8 D

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 su

Are all connections

Are they fixed suffici

Are they each fitted

What pipes are ca

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 d

Smallest distance be

Thickness 1 3/4

Double straps

long seams

outer and 6

Per centages of stre

Size of compensatin

Length of plain pa

Working pressure of

Pitch of stays to di

Material of stays

Material Steel

Area at smallest

Thickness 29/32 M

Diameter of tubes

Pitch across wi

thickness of girder

Working pressure

Diameter

Pitch of rivets

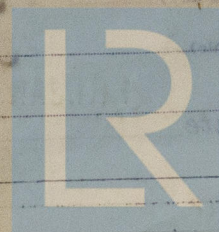
UPERHEAT

Date of Test

Diameter of Safety

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

N.E.—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.



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