Rpt. 9.

No. 80940

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

(Received at London Office 4 FEB 1927)

Date of writing Report ____ 19__ When handed in at Local Office 3rd Feb 1927 Port of Newcastle-on-Tyne

No. in Reg. Book. 90704 Survey held at Newcastle Date, First Survey 29th Oct/26 Last Survey 1st Feb 1927 (No. of Visits 6)

on the Machinery of the ~~Wood, Iron or~~ Steel Twin Sc "RALEIGHSTAR" "NAPIERSTAR"

Tonnage { Gross 10600 / Net 6500

Vessel built at Port Glasgow By whom Lithgows Ld When 1927

Engines made at Newcastle By whom The Parsons Marine Steam Turbine Co Ld When 1927

Nominal Horse Power { ____

Boilers, when made (Main) 1927 (Donkey) ____

No. of Main Boilers ____ Owners Blue Star Line (1920) Ld Owners' Address (if not already recorded in Appendix to Register Book).

No. of Donkey Boilers ____ Managers ____ Port London Voyage ____

Steam Pressure— in Main Boilers ____ ~~If~~ Surveyed ~~Afloat or in Dry Dock~~ at Messrs Parsons. (State name of Dock.)

in Donkey Boilers ____

Last Report No. ____ Port ____

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.	Years Assigned now expired.	Machinery and Boiler Surveys (including date of N.B., if any).
100 A1 with freeboard		
clause contemplated		
F.E. Rpt not yet		
received		

Particulars of Examination and Repairs (if any) Repairs

(Periodical Surveys, when held, must be reported in detail and seriatim 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.

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? ____

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? ____ 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? ____ Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ____

Has shaft now been changed? ____ If so, state reasons ____

Is the shaft now fitted new? ____ Has it a continuous liner? ____ Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ____

State the distance between lignum vitæ or bearing metal 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? ✓

The port LP turbine which was removed from the steamer "Rodneystar" (Parsons 232) and replaced by one from the sister vessel "Raleighstar" "Napierstar" (Parsons 233) has been returned to Messrs Parsons the builders for repair.

Now done:- The turbine opened up, the astern dummy piston found damaged & the cylinder taking same in top & bottom halves of casing also damaged. It was found necessary to renew the top half of the casing in which the dummy cylinder was fast & the casting, but the lower half was repaired by fitting a new dummy lower half cylinder & testing the casting. A new dummy piston was fitted to the astern end of the rotor & having an increased section in order to resist the centrifugal force which ruptured the previous dummy piston. The new top half casing machined, bladed & tested & the complete unit afterwards tested under steam at 2650 R.P.M. The first row of impulse astern blading in the rotor was also renewed. The above turbine is being forwarded to Port Glasgow where it will be fitted on board.

General Observations, Opinion, and Recommendation: (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. 9,11, B.&M.S. 9,11, or ✠ L.M.C. 9,11, 140 lb., F.D., &c.)

The above is reported for the information of the Committee & the report should afterwards be forwarded to the Greenock Surveyor.

re The Parsons Marine Turbine Co for repairs to the Port LP turbine ex "Rodneystar"

Survey Fee (~~per Section 28~~) £ 5 5 =

Special Damage or Repair Fee (if any) (per Section 28.) £ : :

Travelling Expenses (if chargeable) £ : :

Fees applied for 8 FEB 1927

Received by me, 30 3 1927

T. J. Stoddart

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 22 MAR 1927

Assigned See Yrk. F.E. Rpt 1868.

Send Yrk

Total No. of Visits 115

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

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

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W349-0237

Submitted this Report be forwarded to the Greenock Surveyors for their information.

DM
7/2/27.

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.

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Dt. 48.

Date of writing ..... in No. in Surv. Reg. Book.

Master .....

Engines made .....

Boilers made .....

Registered H.P. .....

Shaft Horse Power .....

TURBINES.

Diameter of Rotor .....

Diameter of Jacket .....

Diameter of Wheel .....

Width of Face .....

No. of Screw Shafts .....

No. of Blades .....

Thickness at Boss .....

ARTICULATED

No. and size of Bolts .....

No. and size of Nuts .....

Thickness of Nuts .....

Are they fitted with Lock Nuts .....

Are they fitted with Split Pins .....

Are all the Bolts and Nuts below water well made in Welding .....

Are all Pipes .....

What pipes are made in Welding .....

Are they fitted with Lock Nuts .....

Are the Bilge Pipes made in Welding .....

Is the Screw Shaft made in Welding .....

OILER.

Total Heating Surface .....

Working Pressure .....

Can each boiler be worked separately .....

Smallest diameter of Furnace .....

Thickness .....

Per centage of Welding .....

Size of connection .....

Length of Tube .....

Working Pressure .....

Pitch of Tube .....

Material .....

Diameter .....

Thickness .....

Diameter .....

Pitch .....

thickness .....

Working Pressure .....

Thickness .....

Working Pressure .....

No. of Bilge Pipes .....

Are all the Bilge Pipes made in Welding .....

Are all connections made in Welding .....

Are they fitted with Lock Nuts .....

Are they fitted with Split Pins .....

Are all the Bolts and Nuts below water well made in Welding .....

Are the Bilge Pipes made in Welding .....

Is the Screw Shaft made in Welding .....

IF THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

FIRST EXPANSION

No. and size of Bolts .....

No. and size of Nuts .....

Thickness of Nuts .....

Are they fitted with Lock Nuts .....

Are they fitted with Split Pins .....

Are all the Bolts and Nuts below water well made in Welding .....

Are the Bilge Pipes made in Welding .....

Is the Screw Shaft made in Welding .....

Per centage of Welding .....

Size of connection .....

Length of Tube .....

Working Pressure .....

Pitch of Tube .....

Material .....

Diameter .....

Thickness .....

Diameter .....

Pitch .....

thickness .....

Working Pressure .....

Thickness .....

Working Pressure .....

No. of Bilge Pipes .....

Are all the Bilge Pipes made in Welding .....

Are all connections made in Welding