

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

No. 25636

Date of writing Report 14th Oct 30 When handed in at Local Office 17 OCT 1930 (Received at London Office 20 OCT 1930)

Survey held at London Port of London

Date, First Survey 1st September Last Survey 1st Oct 1930

Gross 10854 Net 5183 Vessel built at Greenock By whom Harland & Wolff Ltd When 1925-26

Engines made at Belfast Boilers, when made (Main) 1925 By whom Harland & Wolff Ltd When 1925

Owners P.O. Steam Navigation Co Managers Union of N.Z. & A. Owners' Address Port Greenock Voyage Millwall Dry Dock

Donkey Boilers ☒ Main Boilers ☒ Donkey Boilers ☒ Surveyed Afloat ☒ in Dry Dock Millwall Dry Dock

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

with freeboard. 12.27 Fitted for Oil Fuel 2,25 F.P. above 150° F

Medical Surveys, when held, must be reported in detail and serially in the terms of the Rules. State clearly the nature and extent of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and and initials of any letters respecting this case.

Where the Surveyor has not made a special damage report he is required to state whether he has referred his services for this purpose, and why they were declined? ☒

Has a damage report made by anyone else? If so, by whom? ☒

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

Donkey " ☒

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? 215 lb/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 Boilers? ☒

Surveyor examine the drain plugs of the Main Boilers? yes , and of the Donkey Boiler? ☒

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

Are shafts now been drawn and examined? yes Is it fitted with continuous liner? yes Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ☒

Has it now been changed? No If so, state reasons ☒

Has shaft now fitted been previously used? ☒ Has it a continuous liner? ☒ Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ☒

Distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft Wear Down Port 1/8" Stbd 3/16"

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

Done:- Vessel placed in dry dock and propellers, sea and propeller fastenings examined. Sea cocks and valves opened out and examined. Port and Stbd screw shafts drawn in and examined. Continuous liners. Examined stern bush and wood. Wear down as stated.

The cylinders, pistons, valves and casings; crankshafts and intermediate shafting, pumps and pumping arrangements examined.

Two Bauer-Wach Exhaust Steam Turbines have been installed gearing on to the Port and Stbd thrust shafts. A 300 Kw. generator is driven from each 1st reduction pinion through a clutch. These generators can also be driven by a direct steam turbine on the same line of shafting. New thrust shafts have been fitted which carry the D.R. gearing

Observations, Opinion, and Recommendation:- The machinery of this vessel, is now

early 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 alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.: thus, for example, E.S. 9, 11, B.&M.S. 9, 11, or L.M.C. 9, 11, (Lb., F.D., &c.)

Condition, and eligible in our opinion to be reinstated in the register

as previously classed with a record of + L.M.C. 10-30; Notation

10-30; L.P. Turbines with D.R. gearing and hydraulic couplings. Total

1949 Reciprocating + 633 Bauer-Wach = 2582

Section 23. Fees applied for 19

or Repair Fee (if any) 19

Section 28. Received by me, 19

Use (if chargeable) 19

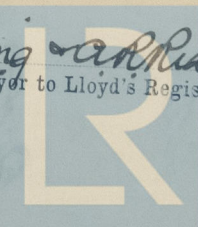
Surveyor's Minute TUE. 28 OCT 1930

+ L.M.C. 10-30; S. 10-30; CL

Impend Engine parts. Elec. Light.

CERTIFICATE WRITTEN

Geo. A. Farrington & Co. Ltd. Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

003971-003979-0161 1/2

Survey for reclassification
 Engines & boiler examined throughout
 satisfactorily reported upon.
 Bauer-Wach turbine & accessories
 fitted

It is submitted that
 this vessel is eligible for
 THE RECORD. Folio 10.10.
 P. 15.10.30 (3) 215A.

Ch.
 Is existing turbine particular
 and 2nd turbine with all
 gearings & hydraulic
 couplings.

N.P. 2255.

24/10/30

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

apt. 9a.
 Port of

London

T.S.S. RAZMAK.

Continuation of Report No. 95/36 dated 24 OCT 1930 on the

pinions. The forward lengths of each line of intermediate
 shafting have been cut and fitted with a muff coupling
 to accommodate new thrust shafts. The condensers, after
 being altered to take larger exhaust steam pipes due to
 increased volume of steam from the Bauer-Wach Turbines,
 have been examined and tested. Weirs vacuum augmenters
 have been connected to the condensers and air pumps.
 Three Lubricating oil pumps and two coolers in connection
 with clutch and turbine systems have been fitted. Lubricating
 oil gravity tanks and sumps fitted. Wyndham's Exhaust
 steam feed water heaters have been fitted.

No. 3, 4, 5 & 6 D.B. Water Ballast Tanks have now been arranged
 to carry O.F. and the air and suction pipe lines made to
 comply with all rule requirements. Steam heating coils
 have been fitted and tested in place to 410 lbs/sq. in. Bilge
 suction pipes have been fitted to drain gutterways round new
 O.F. deep tanks, as per approved plans. Steam heating coils
 and O.F. suction lines to these tanks have been fitted as
 approved and tested to 410 lbs/sq. in. and 30 lbs/sq. in. respectively.
 All main boilers and mountings examined internally,
 externally, and under steam and found in good condition.
 Safety valves adjusted as stated.

Two new 300 Kw generators installed with necessary new
 cables and switches, as per special report attached. These
 generators replace two original 150 Kw generators. The
 electric lighting installation examined and tested
 under working conditions.

Main and Aux. machinery tried under working
 conditions and found satisfactory.

The Oil Fuel burning installation examined, found in
 good condition and in accordance with the Society's Rules.

RE:- The Bauer-Wach Exhaust Steam Turbine installation
 was built under B.O. Y. survey. The greater part
 of the work of installing these in place on board was
 carried out under this Society's survey.

A. R. Riddell

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