

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

(Received at London Office)

Date of writing Report 20<sup>th</sup> June 1922 When handed in at Local Office 19 Port of HAMBURG

No. in Reg. Book 37479 Survey held at HAMBURG Date, First Survey 25 Aug. 21 Last Survey 24<sup>th</sup> May 1922

on the Machinery of the Wood, Iron or Steel Twin S.S. "ENTREPRENEUR" ex "TIPPITZ"

Tonnage { Gross 21428 Vessel built at STETTIN By whom VULCANWERKE A.G. When 1914  
Net 11749

Registered { Horse Power 14 Engines made at STETTIN By whom VULCANWERKE A.G. When 1914  
No. of Main Boilers 14 Boilers, when made (Main) 1914 (Donkey) -  
No. of Donkey Boilers 1 Owners CANADIAN PACIFIC O.S. LD. Port LONDON Voyage Z. K.

Steam Pressure in Main Boilers 242 lb. If Surveyed Afloat or in Dry Dock Afloat & Dry Dock Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

in Donkey Boilers -

Last Report No. - Port -Particulars of Examination and Repairs (if any) Classing

(Periodical Surveys, when held, must be reported in detail and verbatim 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. E-26/10-27/10-11/11-25/11-29/11-13/12-20/12-22/12/21-23/12/21-25/12/21-27/12/21-29/12/21-31/12/21-2/1/22-4/1/22-6/1/22-8/1/22-10/1/22-12/1/22-2/2/22-4/2/22-6/2/22-8/2/22-10/2/22-12/2/22-2/3/22-4/3/22-6/3/22-8/3/22-10/3/22-12/3/22-2/4/22-4/4/22-6/4/22-8/4/22-10/4/22-12/4/22-2/5/22-4/5/22-6/5/22-8/5/22-10/5/22-12/5/22-2/6/22-4/6/22-6/6/22-8/6/22-10/6/22-12/6/22-2/7/22-4/7/22-6/7/22-8/7/22-10/7/22-12/7/22-2/8/22-4/8/22-6/8/22-8/8/22-10/8/22-12/8/22-2/9/22-4/9/22-6/9/22-8/9/22-10/9/22-12/9/22-2/10/22-4/10/22-6/10/22-8/10/22-10/10/22-12/10/22-2/11/22-4/11/22-6/11/22-8/11/22-10/11/22-12/11/22-2/12/22-4/12/22-6/12/22-8/12/22-10/12/22-12/12/22-2/1/23-4/1/23-6/1/23-8/1/23-10/1/23-12/1/23-2/2/23-4/2/23-6/2/23-8/2/23-10/2/23-12/2/23-2/3/23-4/3/23-6/3/23-8/3/23-10/3/23-12/3/23-2/4/23-4/4/23-6/4/23-8/4/23-10/4/23-12/4/23-2/5/23-4/5/23-6/5/23-8/5/23-10/5/23-12/5/23-2/6/23-4/6/23-6/6/23-8/6/23-10/6/23-12/6/23-2/7/23-4/7/23-6/7/23-8/7/23-10/7/23-12/7/23-2/8/23-4/8/23-6/8/23-8/8/23-10/8/23-12/8/23-2/9/23-4/9/23-6/9/23-8/9/23-10/9/23-12/9/23-2/10/23-4/10/23-6/10/23-8/10/23-10/10/23-12/10/23-2/11/23-4/11/23-6/11/23-8/11/23-10/11/23-12/11/23-2/12/23-4/12/23-6/12/23-8/12/23-10/12/23-12/12/23-2/1/24-4/1/24-6/1/24-8/1/24-10/1/24-12/1/24-2/2/24-4/2/24-6/2/24-8/2/24-10/2/24-12/2/24-2/3/24-4/3/24-6/3/24-8/3/24-10/3/24-12/3/24-2/4/24-4/4/24-6/4/24-8/4/24-10/4/24-12/4/24-2/5/24-4/5/24-6/5/24-8/5/24-10/5/24-12/5/24-2/6/24-4/6/24-6/6/24-8/6/24-10/6/24-12/6/24-2/7/24-4/7/24-6/7/24-8/7/24-10/7/24-12/7/24-2/8/24-4/8/24-6/8/24-8/8/24-10/8/24-12/8/24-2/9/24-4/9/24-6/9/24-8/9/24-10/9/24-12/9/24-2/10/24-4/10/24-6/10/24-8/10/24-10/10/24-12/10/24-2/11/24-4/11/24-6/11/24-8/11/24-10/11/24-12/11/24-2/12/24-4/12/24-6/12/24-8/12/24-10/12/24-12/12/24-2/1/25-4/1/25-6/1/25-8/1/25-10/1/25-12/1/25-2/2/25-4/2/25-6/2/25-8/2/25-10/2/25-12/2/25-2/3/25-4/3/25-6/3/25-8/3/25-10/3/25-12/3/25-2/4/25-4/4/25-6/4/25-8/4/25-10/4/25-12/4/25-2/5/25-4/5/25-6/5/25-8/5/25-10/5/25-12/5/25-2/6/25-4/6/25-6/6/25-8/6/25-10/6/25-12/6/25-2/7/25-4/7/25-6/7/25-8/7/25-10/7/25-12/7/25-2/8/25-4/8/25-6/8/25-8/8/25-10/8/25-12/8/25-2/9/25-4/9/25-6/9/25-8/9/25-10/9/25-12/9/25-2/10/25-4/10/25-6/10/25-8/10/25-10/10/25-12/10/25-2/11/25-4/11/25-6/11/25-8/11/25-10/11/25-12/11/25-2/12/25-4/12/25-6/12/25-8/12/25-10/12/25-12/12/25-2/1/26-4/1/26-6/1/26-8/1/26-10/1/26-12/1/26-2/2/26-4/2/26-6/2/26-8/2/26-10/2/26-12/2/26-2/3/26-4/3/26-6/3/26-8/3/26-10/3/26-12/3/26-2/4/26-4/4/26-6/4/26-8/4/26-10/4/26-12/4/26-2/5/26-4/5/26-6/5/26-8/5/26-10/5/26-12/5/26-2/6/26-4/6/26-6/6/26-8/6/26-10/6/26-12/6/26-2/7/26-4/7/26-6/7/26-8/7/26-10/7/26-12/7/26-2/8/26-4/8/26-6/8/26-8/8/26-10/8/26-12/8/26-2/9/26-4/9/26-6/9/26-8/9/26-10/9/26-12/9/26-2/10/26-4/10/26-6/10/26-8/10/26-10/10/26-12/10/26-2/11/26-4/11/26-6/11/26-8/11/26-10/11/26-12/11/26-2/12/26-4/12/26-6/12/26-8/12/26-10/12/26-12/12/26-2/1/27-4/1/27-6/1/27-8/1/27-10/1/27-12/1/27-2/2/27-4/2/27-6/2/27-8/2/27-10/2/27-12/2/27-2/3/27-4/3/27-6/3/27-8/3/27-10/3/27-12/3/27-2/4/27-4/4/27-6/4/27-8/4/27-10/4/27-12/4/27-2/5/27-4/5/27-6/5/27-8/5/27-10/5/27-12/5/27-2/6/27-4/6/27-6/6/27-8/6/27-10/6/27-12/6/27-2/7/27-4/7/27-6/7/27-8/7/27-10/7/27-12/7/27-2/8/27-4/8/27-6/8/27-8/8/27-10/8/27-12/8/27-2/9/27-4/9/27-6/9/27-8/9/27-10/9/27-12/9/27-2/10/27-4/10/27-6/10/27-8/10/27-10/10/27-12/10/27-2/11/27-4/11/27-6/11/27-8/11/27-10/11/27-12/11/27-2/12/27-4/12/27-6/12/27-8/12/27-10/12/27-12/12/27-2/1/28-4/1/28-6/1/28-8/1/28-10/1/28-12/1/28-2/2/28-4/2/28-6/2/28-8/2/28-10/2/28-12/2/28-2/3/28-4/3/28-6/3/28-8/3/28-10/3/28-12/3/28-2/4/28-4/4/28-6/4/28-8/4/28-10/4/28-12/4/28-2/5/28-4/5/28-6/5/28-8/5/28-10/5/28-12/5/28-2/6/28-4/6/28-6/6/28-8/6/28-10/6/28-12/6/28-2/7/28-4/7/28-6/7/28-8/7/28-10/7/28-12/7/28-2/8/28-4/8/28-6/8/28-8/8/28-10/8/28-12/8/28-2/9/28-4/9/28-6/9/28-8/9/28-10/9/28-12/9/28-2/10/28-4/10/28-6/10/28-8/10/28-10/10/28-12/10/28-2/11/28-4/11/28-6/11/28-8/11/28-10/11/28-12/11/28-2/12/28-4/12/28-6/12/28-8/12/28-10/12/28-12/12/28-2/1/29-4/1/29-6/1/29-8/1/29-10/1/29-12/1/29-2/2/29-4/2/29-6/2/29-8/2/29-10/2/29-12/2/29-2/3/29-4/3/29-6/3/29-8/3/29-10/3/29-12/3/29-2/4/29-4/4/29-6/4/29-8/4/29-10/4/29-12/4/29-2/5/29-4/5/29-6/5/29-8/5/29-10/5/29-12/5/29-2/6/29-4/6/29-6/6/29-8/6/29-10/6/29-12/6/29-2/7/29-4/7/29-6/7/29-8/7/29-10/7/29-12/7/29-2/8/29-4/8/29-6/8/29-8/8/29-10/8/29-12/8/29-2/9/29-4/9/29-6/9/29-8/9/29-10/9/29-12/9/29-2/10/29-4/10/29-6/10/29-8/10/29-10/10/29-12/10/29-2/11/29-4/11/29-6/11/29-8/11/29-10/11/29-12/11/29-2/12/29-4/12/29-6/12/29-8/12/29-10/12/29-12/12/29-2/1/30-4/1/30-6/1/30-8/1/30-10/1/30-12/1/30-2/2/30-4/2/30-6/2/30-8/2/30-10/2/30-12/2/30-2/3/30-4/3/30-6/3/30-8/3/30-10/3/30-12/3/30-2/4/30-4/4/30-6/4/30-8/4/30-10/4/30-12/4/30-2/5/30-4/5/30-6/5/30-8/5/30-10/5/30-12/5/30-2/6/30-4/6/30-6/6/30-8/6/30-10/6/30-12/6/30-2/7/30-4/7/30-6/7/30-8/7/30-10/7/30-12/7/30-2/8/30-4/8/30-6/8/30-8/8/30-10/8/30-12/8/30-2/9/30-4/9/30-6/9/30-8/9/30-10/9/30-12/9/30-2/10/30-4/10/30-6/10/30-8/10/30-10/10/30-12/10/30-2/11/30-4/11/30-6/11/30-8/11/30-10/11/30-12/11/30-2/12/30-4/12/30-6/12/30-8/12/30-10/12/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Both rotors have been balanced in shop. Examined Main Condensers & over flow belt from turbines to Condensers. found in order - condensers tested. - Examined "Föttinger transformator" when opened out, primary & secondary impeller wheels, when lifted, transformator casing, tank, shaft, pipes & connections, packings & fastenings, bearings, forced lubrication appliances. - Examined turbine thrust block, which had given trouble from Birmingham to Hamburg. Thrust altered to "Mitchell type", examined main thrust shaft and block, intermediate shafts, bearings, couplings, and found all of these parts sound & free from defects.

The auxiliary machinery, as air pumps, circulating pumps, steam feed pumps, auxiliary feed & fire, & ballast pumps, "Föttinger" tank supply pumps have been thoroughly examined & were found to be in good & safe working conditions. The evaporators, feed heaters, fresh water condensers & filters have been opened up and hydraulically tested.

The pumping arrangements have been examined, the diameters of pipes compared with the plans, all valves geared to deck, connections overhauled & found in order.

The water tube boilers have been examined throughout, and after fitting of longitudinal stays, as shown on approved plan, viz steam drums, they have been subjected to hydraulic pressure to 415 lbs, when they were found sound & showed no deformation at that pressure. Examined all superheaters, valves, safety valves, draining valves, & pipe connections, found in order, superheaters tested with water pressure to 726 lbs, found in safe & satisfactory condition. All main steam lines, auxiliary & life steam lines, main & auxiliary feed lines have been tested to 726 lbs water pressure and were found to be tight & satisfactory.

All boilers examined under steam, adjusted safety valves and tried accumulation test. satisfactory.

Alterations carried out. The late automatic feed regulators have been replaced by those of the "Mumford Type." The boilers have been converted for burning oil fuel above 150° F. All piping, discharge, oil service lines (seamless steel pipes) strainers, air receivers, dischargers hydraulically tested; oil pressure and transfer pumps built under Special Survey and fitted in accordance with the Rules Section 49. All the Rule requirements of Section 49 have been complied with. - Incinerators have been fitted to oil bunkers and peeling tanks.

The spare gear checked & found in compliance with the Rule requirements.

After completion of alterations & overhauling attended to a trial trip, when the "Mitchell" turbine thrust gave trouble, otherwise found the machinery working satisfactorily.

Hamburg 25/6/22.

Friedrich Hill