

Working pressure by Rules ^① 16.6, ^② 16.3 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, ^③ 48 2 / 5 Over threads 17.5 16
No. of threads per inch 9 Area supported by each stay ^③ 280 x 200, ^④ 280 x 280 Working pressure by Rules 17.5 16
Tubes: Material P.M. Steel External diameter { Plain 83 2 Thickness { 4 2 No. of threads per inch 9 Stay 83 2 8 2
Pitch of tubes 110 x 110 2 Working pressure by Rules 16 kg/cm² Manhole compensation: Size of opening 300 x 400 2 Section of compensating ring full plate under dome No. of rivets and diameter of rivet holes 24, 38 2
Outer row rivet pitch at ends 170 2 Depth of flange if manhole flanged ✓ Steam Dome: Material P.M. Steel
Tensile strength 41-47 kg/cm² Thickness of shell 15 2 Description of longitudinal joint lap, double
Diameter of rivet holes 23 2 Pitch of rivets 87 2 Percentage of strength of joint { Plate 74 % Rivets 56 %
Internal diameter 800 2 Working pressure by Rules 18.6 kg/cm² Thickness of crown 19 2 No. and diameter of stays none Inner radius of crown 800 2 Working pressure by Rules 16.7 kg/cm²
How connected to shell flanged corner Size of doubling plate under dome 1450 f. 25 2 Diameter of rivet holes and of rivets in outer row in dome connection to shell 26 2, 90 2

Type of Superheater Smoke tube (Schmidt) Manufacturers of { Tubes Mann. Press. & Walzenwerk A.G. of Düsseldorf, Rheinl. Steel castings Kordische Heilmühle, Wismar
Number of elements 68 Material of tubes P.M. Steel Internal diameter and thickness of tubes 17 2, 2.5 2
Material of headers cast steel Tensile strength 41-55 kg/cm² Thickness 18 2 Can the superheater be shut the boiler be worked separately yes Is a safety valve fitted to every part of the superheater which can be shut off from the boiler yes
Area of each safety valve 804 cm² Are the safety valves fitted with easing gear yes Working pressure Rules 16.5 kg/cm² Pressure to which the safety valves are adjusted 228 lbs Hydraulic test pressure tubes 100 kg/cm², castings 50 kg/cm² and after assembly in place 50 kg/cm² Are drain cocks or valves to free the superheater from water where necessary yes

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with yes

sign. Henschel'sche Schiffbau Anstalt
BLUME

The foregoing is a correct description,

Dates of Survey { During progress of work in shops - 1936 Mark: 2.16.30. Apr. 8.22.29 May 6.12.20.26 Are the approved plans of boiler and superheater forwarded herewith 8. 11. while building { During erection on board vessel - July 3. 7. 17. 22 (If not state date of approval.)
Total No. of visits 16

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. NORTHERN PRIDE

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been built under Special Survey in accordance with the approved plan, the Secretary's letter and in conformity with the requirements of the Rules. The materials used in the construction are made at works recognized by the Committee and tested as required by the Rules. Materials & workmanship are of good quality, and this boiler is eligible in my opinion to be recorded in the Register Book with 228 lbs of pressure.

Mark on Boiler:

No 623
Lloyd's Test 392 lbs
WP 228 lbs
P.K. 10.6.36.

Thickness of adjoining workmen:

Port valve 29.7 2
Port 28.9 2
Superh. 14.5 2

Survey Fee included in Rpt. 4. : : When applied for, 19
Travelling Expenses (if any) £ ✓ : : When received, 19

sign. P. KRÜTZFELD A. Carstensen
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUE. 11 AUG 1936

Assigned See Bmn 7E 18/11



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