

REPORT ON BOILERS.

No. 22630

Received at London Office

Date of writing Report 12th Jan. 1938 When handed in at Local Office

Port of Hamburg

No. in Survey held at Hamburg

Date, First Survey 22nd June 1937 Last Survey 4th January 1938

on the Steel Single Screw NORVIK.

(Number of Visits 6) Tons { Gross 9555 Net 5987

Master Built at Hamburg By whom built Deutsche Werft A.G. Yard No. 194 When built 1938

Engines made at Augsburg By whom made Maschinenfabrik Augsburg-Nürnberg Engine No. 691210 When made 1937

Boilers made at Hamburg By whom made Deutsche Werft A.G. Boiler No. 627 When made 1937

Nominal Horse Power 1167 Owners Tanker Corporation (Lohse Rasmussen + Co.) Port belonging to Panama R.P.

WASTE HEAT LA-MONT DONKEY BOILER COIL SYSTEM.

MULTITUBULAR BOILERS, MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Headers: Klocknerwerke A.G. Georgsmarienhütte. Tubes: Mannesmannröhren-Werke. Remscheid.

(Letter for Record S.)

Total Heating Surface of Boilers 150 m² Is forced draught fitted Coal or Oil fired Waste gas heatedNo. and Description of Boilers 1 Waste heat La-Mont donkey boiler coil system Working Pressure 12 kgs/cm²Tested by hydraulic pressure to 21.5 kgs/cm² Date of test 1.7.37 No. of Certificate 664 Can each boiler be worked separately only in connection with one of the mult. donk. boilers

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler one spring loaded

Area of each set of valves per boiler { per Rule. - as fitted 35 mm ϕ = 962 mm Pressure to which they are adjusted 12 kgs/cm² Are they fitted with easing gear yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers 'tweendeck

Smallest distance between shell of boiler and tank top plating about 3 metres Is the bottom of the boiler insulated

11.35 Largest internal dia. of boilers 1580 mm Height 4040 mm HEADERS Shell plates: Material S-M-Steel Tensile strength 41-47 kgs/mm²Thickness ϕ 140 - BORE 100 mm Are the shell plates welded or flanged Description of riveting: circ. seams { end. - inter. -

long. seams Nos. of coils 18 Diameter of coil tubes 32/26 mm Thickness 3 mm

Percentage of strength of circ. end seams { plate. \checkmark rivets \checkmark Percentage of strength of circ. intermediate seam { plate. \checkmark rivets \checkmark Percentage of strength of longitudinal joint { plate. \checkmark rivets \checkmark combined \checkmark Working pressure of tubes by Rules 16.25 kgs/cm²Thickness of butt straps { outer. \checkmark inner. \checkmark No. and Description of Furnaces in each BoilerMaterial \checkmark Tensile strength \checkmark Smallest outside diameter \checkmark Length of plain part { top. \checkmark bottom. \checkmark Thickness of plates { crown. \checkmark bottom. \checkmark Description of longitudinal joint \checkmark Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules \checkmark End plates in steam space: Material \checkmark Tensile strength \checkmark Thickness \checkmark Pitch of stays \checkmark How are stays secured Working pressure by Rules \checkmark Tube plates: Material { front. \checkmark back. \checkmark Tensile strength { \checkmark Thickness { \checkmark Mean pitch of stay tubes in nests Pitch across wide water spaces Working pressure { front. \checkmark back. \checkmark Girders to combustion chamber tops: Material \checkmark Tensile strength \checkmark Depth and thickness of girder

at centre Length as per Rule Distance apart No. and pitch of stays

in each Working pressure by Rules Combustion chamber plates: Material \checkmark Tensile strength \checkmark Thickness: Sides \checkmark Back \checkmark Top \checkmark Bottom \checkmark Pitch of stays to ditto: Sides \checkmark Back \checkmark Top \checkmark Are stays fitted with nuts or riveted over \checkmark Working pressure by Rules Front plate at bottom: Material \checkmark Tensile strength \checkmark Thickness Lower back plate: Material \checkmark Tensile strength \checkmark Thickness \checkmark Pitch of stays at wide water space Are stays fitted with nuts or riveted over \checkmark Working Pressure Main stays: Material \checkmark Tensile strength \checkmark Diameter { At body of stay. \checkmark Over threads \checkmark No. of threads per inch \checkmark Area supported by each stay \checkmark Working pressure by Rules Screw stays: Material \checkmark Tensile strength \checkmark Diameter { At turned off part. \checkmark Over threads \checkmark No. of threads per inch \checkmark Area supported by each stay \checkmark

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Working pressure by Rules ✓ Are the stays drilled at the outer ends ✓ Margin stays: Diameter { At turned off part, ✓
or
Over threads. ✓
No. of threads per inch ✓ Area supported by each stay ✓ Working pressure by Rules ✓
Tubes: Material ✓ External diameter { Plain ✓
Stay ✓ Thickness { ✓ No. of threads per inch ✓
Pitch of tubes ✓ Working pressure by Rules ✓ Manhole compensation: Size of opening in
shell plate ✓ Section of compensating ring ✓ No. of rivets and diameter of rivet holes ✓
Outer row rivet pitch at ends ✓ Depth of flange if manhole flanged ✓ Steam Dome: Material ✓
Tensile strength ✓ Thickness of shell ✓ Description of longitudinal joint ✓
Diameter of rivet holes ✓ Pitch of rivets ✓ Percentage of strength of joint { Plate ✓
Rivets ✓
Internal diameter ✓ Working pressure by Rules ✓ Thickness of crown ✓ No. and diameter of
stays ✓ Inner radius of crown ✓ Working pressure by Rules ✓
How connected to shell ✓ Size of doubling plate under dome ✓ Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell ✓

Type of Superheater ✓ Manufacturers of { Tubes ✓
Steel forgings ✓
Steel castings ✓
Number of elements ✓ Material of tubes ✓ Internal diameter and thickness of tubes ✓
Material of headers ✓ Tensile strength ✓ Thickness ✓ Can the superheater be shut off and
the boiler be worked separately ✓ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler ✓
Area of each safety valve ✓ Are the safety valves fitted with easing gear ✓ Working pressure as per
Rules ✓ Pressure to which the safety valves are adjusted ✓ Hydraulic test pressure:
tubes ✓ forgings and castings ✓ and after assembly in place ✓ Are drain cocks or
valves fitted to free the superheater from water where necessary ✓

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

The foregoing is a correct description,

DEUTSCHE WERFT
AKTIENGESELLSCHAFT

Manufacturer.

Dates of Survey { During progress of work in shops - - } 1937. June 22, 28 July 1. Are the approved plans of boiler and superheater forwarded herewith
while building { During erection on board vessel - - - } 1937. Dec. 10, 29 1938 Jan. 4. (If not state date of approval.)
Total No. of visits 6

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

NAME	Hamburg Report No.
THORSHNER	21702
NORLYS	21733
REGULUS	22061
	22091

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Material and workmanship of this Waste heat La-Mont donkey boiler (coil system) are of good quality. The materials used in the construction are made at works recognised by the Committee and tested by the Society's Surveyors in accordance with the requirements of the Rules.

This donkey boiler coil system having been made under Special Survey in conformity with the approved plan, the Secretary's letter and otherwise in compliance with the requirements of the Rules is eligible in my opinion to be classed in the Society's Register Book Donkey Boiler Pressure 170 lbs/sq. inch.

Thickness of adjusting washers of safety valves: 4 mm.

Survey Fee £ RM: 84 : - } When applied for, 27. 7. 1938
Travelling Expenses (if any) £ : : } When received, 4/2 1938

MR 4/2

Friedrich

H. Röhm

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 1 FEB 1938

Assigned

See other F.C. report



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