

REPORT ON BOILERS.

No. 17033

Received at London Office

25 APR 1931

18 JUL 1931

Report 13/4/31 When handed in at Local Office

Port of

West Hartlepool

held at Hartlepool

Date, First Survey 15 Sept/30

Last Survey 22 April 1931

he Twin S.S. "VESTFOLD"

(Number of Visits)

Gross 14577.
Net 8009.

Built at Middlesbrough

By whom built Furness S.B. & Co. Ltd.

Yard No. 189

When built 1931.

at Hartlepool

By whom made

Richardsons Westgarth

Engine No. 2677

When made 1931

do

By whom made

G & Co. Ltd.

Boiler No. 2677

When made 1931

Power

Owners

HVALFANGERAKTIESELSKAPET VESTFOLD

Belonging to Sandefjord

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

of Steel Witkowitz B & E. G. & British (Guest Keen Baldwins) I & S Co. Ltd. Letter for Record S. ✓

Surface of Boilers 14,800 sq. ft. ✓ Is forced draught fitted yes Coal or Oil fired oil ✓ Working Pressure 265 lbs.

Description of Boilers 5 single ended ✓ Hydraulic pressure to 448 lbs. Date of test 21.2.31. No. of Certificate 3791. Can each boiler be worked separately yes

Rate in each Boiler ✓ No. and Description of safety valves to each boiler 2 Cockburns improved high lift ✓ Pressure to which they are adjusted 270 lbs. Are they fitted with easing gear 4 lbs ✓

set of valves per boiler { per Rule 7.94" ✓ as fitted 9.82" ✓ key boilers, state whether steam from main boilers can enter the donkey boiler ✓

ance between boilers or uptakes and bunkers or woodwork 1'-9" ✓ Is oil fuel carried in the double bottom under boilers 4 lbs ✓

ance between shell of boiler and tank top plating 2'-1" ✓ Is the bottom of the boiler insulated 4 lbs ✓

nal dia. of boilers 16'-0" ✓ Length 12'-3" ✓ Shell plates: Material Steel Tensile strength 36/40 ✓

Are the shell plates welded or flanged no ✓ Description of riveting: circ. seams { end DR lap ✓ inner ✓

Strength of circ. end seams { plate 57.9 ✓ rivets 43.4 ✓ Diameter of rivet holes in { circ. seams 1 9/16" ✓ { long. seams 1 5/8" ✓ Pitch of rivets { 3 1/10" ✓ { 9 5/8" ✓

Strength of longitudinal joint { plate 83.11 ✓ rivets 84.2 ✓ combined 83.08. ✓ Percentage of strength of circ. intermediate seam { plate ✓ rivets ✓ Working pressure of shell by Rules 266 lbs.

butt straps { outer 1 3/32" ✓ inner 1 1/32" ✓ No. and Description of Furnaces in each Boiler 4 Deightons ✓ Tensile strength 26/30 ✓

main part { top ✓ bottom ✓ Thickness of plates { crown 3" ✓ bottom 4" ✓ Description of longitudinal joint welded ✓

of stiffening rings on furnace or c.c. bottom ✓ Working pressure of furnace by Rules 274 lbs ✓ Tensile strength 26/30 ✓ Thickness 1 5/16" ✓ Pitch of stays 15 5/8" x 19" ✓

in steam space: Material Steel ✓ Working pressure by Rules 266 lbs ✓ Tensile strength 26/30 ✓ Thickness { 1" ✓ { 7/8" ✓

ys secured Double nuts ✓ of stay tubes in nests { front 285 lbs ✓ back 302 lbs ✓ Working pressure { front 285 lbs ✓ back 302 lbs ✓

combustion chamber tops: Material Steel ✓ Tensile strength 28/32 ✓ Depth and thickness of girder { centre 7 3/4" ✓ { wing 8 1/2" ✓ No. and pitch of stays

Length as per Rule 37 7/16" ✓ Distance apart { centre 7 3/4" ✓ { wing 8 1/2" ✓ Working pressure by Rules 268 lbs ✓ Tensile strength 26/30 ✓ Thickness 23/32 ✓

Working pressure by Rules 268 lbs ✓ Tensile strength 26/30 ✓ Thickness 23/32 ✓ Back 23/32 ✓ Top 23/32 ✓ Bottom 15" ✓

ys to ditto: Sides 7 5/8" x 8 5/8" ✓ Back 7 3/4" x 8 1/4" ✓ Top 7 3/4" x 8 5/8" ✓ Are stays fitted with nuts or riveted over nuts ✓

Pressure by Rules 270 lbs. ✓ Front plate at bottom: Material Steel ✓ Tensile strength 26/30 ✓ Thickness 31/32" ✓

Lower back plate: Material Steel ✓ Tensile strength 26/30 ✓ Thickness 31/32" ✓

ys at wide water space 15" x 8" ✓ Are stays fitted with nuts or riveted over nuts ✓

Pressure 268 lbs. ✓ Main stays: Material Steel ✓ Tensile strength 28/32 ✓

body of stay, 2 rows 3 1/4" ✓ No. of threads per inch 6 ✓ Area supported by each stay 19" x 15 5/8" ✓

er threads 1 row 3 1/2" ✓ Screw stays: Material Steel ✓ Tensile strength 26/30 ✓

Pressure by Rules 276 lbs. ✓ No. of threads per inch 9 ✓ Area supported by each stay 8" x 8" ✓

turned off part, 1 3/4" ✓

er threads 1 1/4" ✓

W270-0047

Lloyd's Register Foundation

Working pressure by Rules 283 lb Are the stays drilled at the outer ends no Margin stays: Diameter { At turn-off part, 2 or Over threads }
No. of threads per inch 9 Area supported by each stay 11 1/4" x 8" Working pressure by Rules 274
Tubes: Material Iron External diameter { Plain 2 1/2" Stay 2 1/2" Thickness { 3/8" 7/16" 1/2" No. of threads per inch
Pitch of tubes 3 3/4" x 3 1/8" W. 3 7/8" C. Working pressure by Rules 265 lb Manhole compensation: Si
shell plate 20 1/2" x 16 1/2" Section of compensating ring 24 x 1 1/2" No. of rivets and diameter of rivet holes 36
Outer row rivet pitch at ends 9 5/8" Depth of flange if manhole flanged ✓ Steam Dome: Material no
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. ✓
stays ✓ Inner radius of crown ✓ Working pressure by Rules ✓
How connected to shell ✓ Size of doubling plate under dome ✓ Diameter of rivet ✓
of rivets in outer row in dome connection to shell ✓

Type of Superheater Smoke box Manufacturers of Tubes The Superheater Co Ltd.
Number of elements 144 Material of tubes S.D. Steel Internal diameter and thickness of tubes 1 3/4"
Material of headers Forged steel Tensile strength ✓ Thickness 1/2" 6" int'l dia. Can the superheater
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
Area of each safety valve 4.90" Are the safety valves fitted with easing gear yes Working
Rules 265 lb. Pressure to which the safety valves are adjusted 275 lbs. Hydraulic
tubes 1000 lb castings headers 800 lb and after assembly in place 550 lb Are drain cocks Autom
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

The foregoing is a correct description
For RICHARDSON, WESTGATE & Co. Ltd.
M. E. Ross
LOCAL DIRECTOR

Dates { During progress of work in shops - - } See Machinery report Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
while { During erection on board vessel - - }
building {

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

See accompanying machinery report.
These boilers have been securely fitted aboard under special
and in accordance with the Rules and the boiler and superheater
safety valves have been adjusted and tested under steam with
satisfactory results.

P. J. Man
Ind.

Survey Fee ... £ See: Machy When applied for, 19
Travelling Expenses (if any) £ suph: When received, 19

R. D. Shilston
Engineer Surveyor to Lloyd's Register of

Committee's Minute FRI. 24 JUL 1931

Assigned See F.O. Rpt.