

REPORT ON BOILERS.

No. 10050.

Received at London Office TUE. 12 MAR. 1918

Rating Report

When handed in at Local Office 11.3.18 Port of Middlesbrough

Survey held at

Stockton-on-Tees

Date, First Survey 14th Nov. 1917 Last Survey 28th Feb. 1918.

(Number of Visits 14)

Tons Gross Net

on the Ferro-Concrete S/S "Armistice"

Built at Baston-in-Furness By whom built Ferro-Concrete Ship Construction Co. Ltd. When built 1919

made at S. Shields

By whom made G. T. Grey & Co. Lim.

When made

made at Stockton

By whom made Messrs Riley Bros Ltd (No 5102)

When made 1918

ed Horse Power

Owners

The Ferro-Concrete Ship Construction Co. Ltd. (Lerford Walford (London) Ltd. Ingrs) Port belonging to London

TITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

John Spencer & Sons David Colville & Sons

for record (S) Total Heating Surface of Boilers 743 sq ft Is forced draft fitted No No. and Description of

One single ended

Working Pressure 140

Tested by hydraulic pressure to 280

Date of test 28.2.18

Certificate 5871

Can each boiler be worked separately

Yes

Area of fire grate in each boiler 29 sq ft

No. and Description of

valves to each boiler Two - Spring-loaded Area of each valve 3.98 sq ft Pressure to which they are adjusted 143 lbs per sq in

y fitted with easing gear Yes

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

Yes

st distance between boilers or uptakes and bunkers or woodwork 4'-0"

Inside

Mean dia. of boilers 9'-6" Length 9'-0"

al of shell plates Steel

Thickness 4 3/4"

Range of tensile strength 28-32

Are the shell plates welded or flanged no

p. of riveting: cir. seams 2 R. lap

long. seams 2 B-2 Riv

Diameter of rivet holes in long. seams 15/16"

Pitch of rivets 5 1/2"

plates or width of butt straps 9 x 4 1/2"

Per centages of strength of longitudinal joint

83.7

Working pressure of shell by

140 Size of manhole in shell 19" x 15"

Size of compensating ring 7 x 1 in. dia.

No. and Description of Furnaces in each

2 plain

Material steel

Outside diameter 36"

Length of plain part

top 66 3/4"

Thickness of plates crown 5/8"

ption of longitudinal joint Weld

No. of strengthening rings none

Working pressure of furnace by the rules 153

Combustion chamber

Material Steel Thickness: Sides 9/16"

Back 9/16"

Top 9/16"

Bottom 3/4"

Pitch of stays to ditto: Sides 9 x 8" Back 9 x 8 1/4"

2 x 8" If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 140

Material of stays steel

Area at

st part 1.45 Area supported by each stay 74.25

Working pressure by rules 156

End plates in steam space: Material steel Thickness 7/8"

of stays 14 1/2 to screw stay

How are stays secured nuts & 6 x 1/2 washers

Working pressure by rules 140

Material of stays steel

Area at smallest part 4.11

supported by each stay 278

Working pressure by rules 154

Material of Front plates at bottom steel

Thickness 7/8" Material of

back plate steel

Thickness 7/8"

Greatest pitch of stays 13 1/4 x 8 1/4"

Working pressure of plate by rules 216

Diameter of tubes 3 1/4"

of tubes 4 1/2 x 4 1/4"

Material of tube plates steel

Thickness: Front 7/8"

Back 5/8"

Mean pitch of stays 10"

Pitch across wide

spaces 13 1/4"

Working pressures by rules 140

Girders to Chamber tops: Material steel

Depth and thickness of

at centre 7 x 1 1/4"

Length as per rule 26"

Distance apart 9 1/2"

Number and pitch of Stays in each 2 @ 8"

ng pressure by rules 144

Steam dome: description of joint to shell none

% of strength of joint

ter Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

RHEATER. Type none

Date of Approval of Plan

Tested by Hydraulic Pressure to

Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

er of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

REVEY REQUEST

1406. ATTACHED.

FOR The foregoing is a correct description,

RILEY BROS. (BOILERMAKERS) LIMITED

A. Smith

Manufacturer.

Is the approved plan of boiler forwarded herewith yes

During progress of 1917. Nov 14. 19. 23. Dec 5. 16. 20. 1918. Jan 10

work in shops - - 16. 23. 28. 31. Feb 13. 20. 28.

During erection on 1919 Jan 9. 13. 18. 21. 24. 28. 30. Feb 3. 5. 6. 7. 10. 13. 18. 21. 24. 28. 30. Mar 3. 5. 6. 7. 10. 13. 18. 21. 24. 28. 30. Apr 3. 5. 6. 7. 10. 13. 18. 21. 24. 28. 30. May 3. 5. 6. 7. 10. 13. 18. 21. 24. 28. 30. Jun 3. 5. 6. 7. 10. 13. 18. 21. 24. 28. 30. Jul 3. 5. 6. 7. 10. 13. 18. 21. 24. 28. 30. Aug 3. 5. 6. 7. 10. 13. 18. 21. 24. 28. 30. Sep 3. 5. 6. 7. 10. 13. 18. 21. 24. 28. 30. Oct 3. 5. 6. 7. 10. 13. 18. 21. 24. 28. 30. Nov 3. 5. 6. 7. 10. 13. 18. 21. 24. 28. 30. Dec 3. 5. 6. 7. 10. 13. 18. 21. 24. 28. 30. Total 11

Total No. of visits

14

Total 25

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

This boiler has been built under

cial Survey: is of good material and workmanship and on completion was tested by
draulic pressure with satisfactory results. The boiler has been forwarded to Smith Shields
this boiler has been efficiently fitted on board; its safety valves have been adjusted
as steam as noted above, & it was found tight under a full head of steam

urvey Fee

2 - 10-0

When applied for, Monthly ap

travelling Expenses (if any)

When received, 191.

John Houston

15/2/19

W. Morrison

Engineer Surveyor to Lloyd's Register of Shipping.

mittee's Minute

igned

igned

igned

igned

igned

igned