

REPORT ON BOILERS.

No. 19100.

Received at London Office

Date of writing Report

25/4/29

1929

When handed in at Local Office

30 OCTOBER 1929

Port of

Greenock

No. in
Reg. Book.

Survey held at

Greenock

Date, First Survey

16th October 1928.

Last Survey

1st October

1929

on the

TS/MS "Athelwiscourt"

(Number of Visits

Gross 8882.30.
Tons Net 5259.31.

Master

Built at

P. Glasgow

By whom built

R. Duncan & Co.

Yard No.

391

When built

1929

Engines made at

Greenock

By whom made

John & Kneaid & Co.

Engine No.

1737

When made

1929

Boilers made at

ditto

By whom made

ditto

Boiler No.

1737

When made

1929

Nominal Horse Power

Owners

United Molasses Co. Ltd.

Port belonging to

Liverpool

MULTITUBULAR BOILERS ———, AUXILIARY, ———.

Manufacturers of Steel *Usine Metallurgique de Hamant, Société Anonyme, Bargoil, St. Etienne* Letter for Record *S*

Total Heating Surface of Boilers

1220.95 sq ft

Is forced draught fitted

yes

Coal or Oil fired

oil

No. and Description of Boilers

one single ended

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

26. 7. 29

No. of Certificate

1880

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

oil fuel

No. and Description of safety valves to each boiler

Double Spring

Area of each set of valves per boiler

per Rule

9.38 sq ft

as fitted

Pressure to which they are adjusted

185

Are they fitted with easing gear

yes

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

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

15'-0"

Is oil fuel carried in the double bottom under boilers

no

Smallest distance between shell of boiler and tank top plating

14 1/2"

Is the bottom of the boiler insulated

yes

Largest internal dia. of boilers

11'-2 1/16"

Length

10'-6"

Shell plates: Material

S

Tensile strength

28.32

Thickness

15 1/16"

Are the shell plates welded or flanged

yes

Description of riveting: circ. seams

end

long. seams

TR & DBS

Diameter of rivet holes in

circ. seams

1 1/8"

Pitch of rivets

3.85

Percentage of strength of circ. end seams

plate

40.8

rivets

46.4

Percentage of strength of circ. intermediate seam

plate

86.7

rivets

Percentage of strength of longitudinal joint

plate

92.4

rivets

89.98

Working pressure of shell by Rules

182

Thickness of butt straps

outer

23/32"

inner

27/32"

No. and Description of Furnaces in each Boiler

2 Deightons

Material

S

Tensile strength

26.30

Smallest outside diameter

2'-0 15/16"

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

weld

Dimensions of stiffening rings on furnace or c.c. bottom

yes

Working pressure of furnace by Rules

182

End plates in steam space: Material

S

Tensile strength

26.30

Thickness

1 1/32"

Pitch of stays

16 1/2" x 16 1/2"

How are stays secured

nuts

Working pressure by Rules

182

Tube plates: Material

front

back

S

Tensile strength

26.30

Thickness

23/32"

Mean pitch of stay tubes in nests

9' 48"

Pitch across wide water spaces

14"

Working pressure

front 184

back 192

Girders to combustion chamber tops: Material

S

Tensile strength

28.32

Depth and thickness of girder

at centre

8 1/4" x 3 1/4" (2)

Length as per Rule

2'-7 1/2"

Distance apart

8"

No. and pitch of stays

in each

2 at 10"

Working pressure by Rules

183

Combustion chamber plates: Material

S

Tensile strength

26.30

Thickness: Sides

21/32"

Back

21/32"

Top

21/32"

Bottom

21/32"

Pitch of stays to ditto: Sides

8' 10"

Back

9' 9 1/4"

Top

8' 10"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

180

Front plate at bottom: Material

S

Tensile strength

26.30

Thickness

1"

Lower back plate: Material

S

Tensile strength

26.30

Thickness

25/32"

Pitch of stays at wide water space

133/4"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

183

Main stays: Material

S

Tensile strength

28.32

Diameter

At body of stay

2 5/8"

No. of threads per inch

6

Area supported by each stay

243.6 sq in

Working pressure by Rules

184

Screw stays: Material

S

Tensile strength

26.30

Diameter

At turned off part

1 5/8"

No. of threads per inch

9

Area supported by each stay

80 sq in

PILLARS.
"
"
"
"
Centre
Stiffen
Plating
STRINGER
Upper
Stringer
"
"
Thick
in w
Thick
in w
Thick
If She
Second
String
STR
FLAT PLAT
"
"
BOTTOM PL
of Strake
BILGE PLAT
Strakes
SIDE PLAT
Strakes
UPPER DE
strake
UPPER DE
strake
STRAKE BI
strake
STRAKE BI
strake
POOP SIDE
BRIDGE SI
FOREC'TLE
Total No
MIDSH
"
"
"
"
COLLIS
AFTER
STEEL

Working pressure by Rules 190 Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 13/4" or Over threads
No. of threads per inch 9 Area supported by each stay 103.5" Working pressure by Rules 214
Tubes: Material Iron External diameter { Plain } 3" Thickness 9 WG 1 1/4 3/8 3/16 No. of threads per inch 9
Pitch of tubes 4 1/4 x 4 3/16 Working pressure by Rules 183 Manhole compensation: Size of opening in
shell plate 20" x 16" Section of compensating ring 2.83/4 x 2.43/4 + 1 1/2 No. of rivets and diameter of rivet holes 38 at 1 1/8"
Outer row rivet pitch at ends 4 1/2" Depth of flange if manhole flanged 3 1/2" 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 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 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

The foregoing is a correct description,
FOR JOHN G. KINCAID & COY. LIMITED Manufacturer

Dates of Survey { During progress of work in shops - - - Are the approved plans of boiler See Machinery Report for and at how with
while building { During erection on board vessel - - - (If not state date of approval.)
Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been built under Special Survey in accordance with the approved plans & the workmanship & material are of good quality it is now securely fitted on board T.E.R. Report (Duplicate of H 34 13/5 "Auld ducks" Lark Rpt No 1907)

Survey Fee £ Charged on Machinery Rpt When applied for, 192 When received, 192
Committee's Minute GLASGOW 8 OCT 1929
Assigned See accompanying machinery report
W. Gordon-Maclean
Engineer Surveyor to Lloyd's Register of Shipping.