

REPORT ON BOILERS.

Received at London Office

Date of writing Report 25/4/29 When handed in at Local Office 3rd OCTOBER 1929 Port of Liverpool

No. in Reg. Book. TS/MS "Athelwincunt" Date, First Survey 16th October 1928 Last Survey 1st October 1929
(Number of Visits 01) Gross 8882.30
Tons Net 5259.31

Master P. Glasgow Built at P. Glasgow By whom built R. Duncan & Co. Ltd. Yard No. 391 When built 1929
Engines made at Liverpool By whom made John & Kneaid & Co. Ltd. Engine No. 1137 When made 1929
Boilers made at ditto By whom made ditto Boiler No. 1137 When made 1929
Nominal Horse Power _____ Owners United Molasses Co. Ltd. Port belonging to Liverpool

MULTITUBULAR BOILERS - [REDACTED], AUXILIARY, [REDACTED].

Manufacturers of Steel Usine d'Acier d'Alsace, Societe Anonyme, Longwy, Steel Co. of Scotland Letter for Record S

Total Heating Surface of Boilers 1220.95 sq ft Is forward 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 Pressure to which they are adjusted 185 Are they fitted with casing 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 DR

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 Percentage of strength of circ. intermediate seam plate 86.7

Percentage of strength of longitudinal joint plate 86.7 Working pressure of shell by Rules 182

Thickness of butt straps outer 23/32" No. and Description of Furnaces in each Boiler 2 Deightous

Material S Tensile strength 26.30 Smallest outside diameter 3'-0 15/16"

Length of plain part top 15 1/32" Thickness of plates bottom 15 1/32" 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 0 nuts Working pressure by Rules 182

Tube plates: Material 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

Girders to combustion chamber tops: Material S Tensile strength 28.32 Depth and thickness of girder back 192

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 13 3/4" 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 sq ft Working pressure by Rules 214

Tubes: Material Iron External diameter (Plain } 3" Thickness 9 WG 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 + 1/32 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 casing 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 See Machinery Report with (If not state date of approval.)

while building (During erection on board vessel - - -) 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 This Report accompanies trial of the Machinery (Duplicate of N 34 13/15 "Auld ducks" Log Rpt No 1907)

Survey Fee £ Charged on Machinery Rpt
When applied for, 192
When received, 192

W. Gordon-Maclean
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 8 OCT 1929
Assigned See accompanying machinery report

