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REPORT ON BOILERS.

No. 20549.
JUN -8 1938
Received at London Office

writing Report 14. H 1938 When handed in at Local Office 3RD June. 1938. Port of Greenock

in Book. Survey held at Greenock Date, First Survey 8TH OCTOBER. 1934. Last Survey 19

on the M/S "Davila" (Number of Visits) Tons { Gross 8053.30. Net 4464.94.

Built at Pt Glasgow By whom built Lithgows Ld Yard No. 907 When built 1938

es made at Greenock By whom made John G Kincaid & Co Ld Engine No. K1114 When made 1938

s made at ditto By whom made ditto Boiler No. K1114 When made 1938

nal Horse Power Owners Anglo Saxon Petroleum Co Ld Port belonging to London

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LTITUBULAR BOILERS [redacted] DONKEY.

ufacturers of Steel Steel Co of Scotland, Colville, Scottish Iron & Steel Co (Letter for Record S)

l Heating Surface of Boilers 250 sq ft Is forced draught fitted Yes ~~Coal or~~ Oil fired Oil

and Description of Boilers One Single Ended Working Pressure 180

ed by hydraulic pressure to 320 Date of test 8.2.38 No. of Certificate 2140 Can each boiler be worked separately —

of Firegrate in each Boiler Oil Fired No. and Description of safety valves to each boiler Double Spring

of each set of valves per boiler { per Rule 16 sq in, as fitted 16.8 sq in Pressure to which they are adjusted 185 Are they fitted with easing gear Yes

se of donkey boilers, state whether steam from main boilers can enter the donkey boiler —

llest distance between boilers or uptakes and bunkers ~~or woodwork~~ 2'-6" Is oil fuel carried in the double bottom under boilers No

llest distance between shell of boiler and tank top plating 17'-0" Is the bottom of the boiler insulated Yes

gest internal dia. of boilers 14'-6" Length 11'-6" Shell plates: Material S Tensile strength 29.33

kness 1 5/32" Are the shell plates welded or flanged — Description of riveting: circ. seams { end DR, inter. —

seams TR + DBS Diameter of rivet holes in { circ. seams 1 7/32", long. seams 1 5/32" Pitch of rivets { 3.52, 7 7/8"

centage of strength of circ. end seams { plate 65.4, rivets 45.3 Percentage of strength of circ. intermediate seam { plate —, rivets —

centage of strength of longitudinal joint { plate 85.32, rivets 85.45, combined 87.49 Working pressure of shell by Rules 180

ckness of butt straps { outer 7/8, inner 1" No. and Description of Furnaces in each Boiler 3 Deightons

terial S Tensile strength 26.30 Smallest outside diameter 3'-4 1/8"

gth of plain part { top —, bottom — Thickness of plates { crown, bottom } 9/16" Description of longitudinal joint weld

ensions of stiffening rings on furnace or c.c. bottom — Working pressure of furnace by Rules 189

d plates in steam space: Material S Tensile strength 26.30 Thickness 19/32" Pitch of stays 21" + 19 1/2" B.S.B. 9.-6.-38

are stays secured D.N. + Washers Working pressure by Rules 187

e plates: Material { front, back } S Tensile strength { 26.30 Thickness { 15/16", 11/16" Working pressure { front 225, back 191

n pitch of stay tubes in nests 9.375" Pitch across wide water spaces 13 1/2" Working pressure

lers to combustion chamber tops: Material S Tensile strength 29.33 Depth and thickness of girder

centre 8 1/2 + 3/4 (2) Length as per Rule 2'-4 5/8" Distance apart 9 No. and pitch of stays

each 3 at 4 1/2" Working pressure by Rules 193 Combustion chamber plates: Material S

sile strength 26.30 Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 7/8"

ch of stays to ditto: Sides 4 1/2 + 7 7/16" Back 4 4/16" + 4 1/2" Top 9" + 4 1/2" Are stays ~~fitted with nuts~~ or riveted over Rivetted

rking pressure by Rules 184 Front plate at bottom: Material S Tensile strength 26.30

ckness 15/16" Lower back plate: Material S Tensile strength 26.30 Thickness 13/16"

ch of stays at wide water space 14" Are stays fitted with nuts or riveted over Marginal Stays Nutted other Rivetted

rking Pressure 189 Main stays: Material S Tensile strength 28-32

meter { At body of stay, or Over threads 3 1/4", — No. of threads per inch 6 Area supported by each stay 409.5 □"

rking pressure by Rules 191 Screw stays: Material S Tensile strength 26.30

meter { At turned off part, or Over threads 1 3/8, — No. of threads per inch 9 Area supported by each stay 55.7 □"

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Working pressure by Rules 184. Are the stays drilled at the outer ends No ✓ Margin stays: Diameter { At turned off part, or Over threads } 1 5/8" ✓

No. of threads per inch 9 ✓ Area supported by each stay 80.3 □ Working pressure by Rules 189

Tubes: Material Iron ✓ External diameter { Plain / Stay } 2 1/2" ✓ Thickness { 9/32 ✓ 11/32 ✓ } 9 WG ✓ No. of threads per inch 9 ✓

Pitch of tubes 3 3/4" × 3 3/4" ✓ Working pressure by Rules 210 **Manhole compensation:** Size of opening in shell plate 16 1/2" × 20 1/2" ✓ Section of compensating ring 2.11" × 2.9" × 1 9/32" ✓ No. of rivets and diameter of rivet holes 38 at 1 5/16" ✓

Outer row rivet pitch at ends 9 1/4" ✓ Depth of flange if manhole flanged 3 1/4" ✓ **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 from the boiler when 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 according to 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,

For JOHN G. KINCAID & CO. LIMITED.

A. Carter Director. Manufacturer.

Dates of Survey while building { During progress of work in shops - - / During erection on board vessel - - - } SEE MACHINERY REPORT

Are the approved plans of boiler ~~and superheater~~ forwarded herewith Yes
(If not state date of approval.)

Total No. of visits

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. M/S "Adula" Erk Rpt. No. 2034

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.
This Report accompanies that of the Machinery. ✓

Survey Fee Charged on Machy Rpt. } When applied for, 19
Travelling Expenses (if any) £ : : } When received, 19

Wm. Gordon Minchin
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 7 - JUN 1938

Assigned SEE ACCOMPANYING MACHINERY REPORT.

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