

LONDON RPT 88621
No. 10599
JUL 17 1920

REPORT ON BOILERS.

pt. 5a.

Received at London Office

Date of writing Report 13/2/20 When handed in at Local Office 14/2/20 Port of Middlesbrough

Survey held at Stockton-on-Tees Date, First Survey 19 June 1919 Last Survey 17 February 1920

on the S.S. "Margaret Buck" (Number of Visits 11) Tons 11 Gross 11 Net 11

Built at New Holland By whom built Warren (New Holland) Shipyard Ltd When built 1925

Plates made at St. James By whom made Byattree & Co. Ltd When made 1925

Boilers made at Stockton By whom made Thos. Riley Bros Ltd (N° 5057) When made 1920

Registered Horse Power 100 Owners Mr. W. I. Warren Port belonging to New Holland

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Thos. J. Spencer & Sons Ltd

Letter for record (5) Total Heating Surface of Boilers 1430 1/4 Is forced draft fitted No No. and Description of Boilers One single ended SB Working Pressure 130 Tested by hydraulic pressure to 260 Date of test 11.2.20

Number of Certificate 6084 Can each boiler be worked separately Yes Area of fire grate in each boiler 37.7 sq ft No. and Description of Safety Valves to each boiler 2 Spring loaded Area of each valve 7.06 sq in Pressure to which they are adjusted 130 lbs

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 3 in side bunkers Mean dia. of boilers 12'-6" Length 10'-6"

Material of shell plates steel Thickness 25/32" Range of tensile strength 28-32 Are the shell plates welded or flanged no

Description of riveting: cir. seams 2 R. lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams 15/16" Pitch of rivets 7 1/4"

Number of plates or width of butt straps 13 3/4 x 4 1/2 Per centages of strength of longitudinal joint 91.0 Working pressure of shell by rules 134 Size of manhole in shell 19" x 15" Size of compensating ring 7" x 1" 9/16" dia No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 42" Length of plain part 75 1/4" Thickness of plates 23/32" crown 23/32" bottom 7/8" mean

Description of longitudinal joint weld No. of strengthening ring none Working pressure of furnace by the rules 142 Combustion chamber plates: Material steel Thickness: Sides 19/32" Back 9/16" Top 19/32" Bottom 13/16" Pitch of stays to ditto: Sides 10" x 9" Back 8 3/4" x 9"

Area supported by each stay 1.45 Area supported by each stay 75.75 Working pressure by rules 147 End plates in steam space: Material steel Thickness 7/8"

How are stays secured 6 x 7/8 washers Working pressure by rules 131 Material of stays steel Area at smallest part 3.67

Area supported by each stay 295 Working pressure by rules 167 Material of Front plates at bottom steel Thickness 13/16" Material of upper back plate steel Thickness 3/4" Greatest pitch of stays 14" x 9" Working pressure of plate by rules 140 Diameter of tubes 3 1/2"

Material of tube plates steel Thickness: Front 13/16" Back 1/2" Mean pitch of stays 10 1/2" Pitch across wide tubes spaces 13 3/4" Working pressures by rules 134 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8" x 1 1/2" Length as per rule 32" Distance apart 9" Number and pitch of Stays in each 2 @ 15"

Working pressure by rules 134 Steam dome: description of joint to shell none % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Thickness of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

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

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,
FOR RILEY BROS. (BOILERMAKERS) LTD Manufacturer.

Dates During progress of work in shops: 1919 Jun 19, Jul 4, 15, Oct 7, 24, 28, Nov 5, Jan 21, 28. Is the approved plan of boiler forwarded herewith yes

While building: Feb. 3, 11. Total No. of visits 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey: is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results.

Boiler examined under steam & safety valves adjusted to 130 lbs.

Survey Fee ... £ 4-15-9 When applied for, Monthly a/c.

Travelling Expenses (if any) £ : : When received, 19

18 FEB 1920

Wm Morrison & Co. Ltd. Falmouth
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Signed Not for classing Committee

Lloyd's Register Foundation
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