

# REPORT ON BOILERS.

No. 18509.

Received at London Office

3 MAR 1926

Date of writing Report 2. 1926 When handed in at Local Office 24. 2. 1926 Port of Greenock.

No. in Survey held at Greenock Date, First Survey 11th March, 1925. Last Survey 24th February 1926.  
 Reg. Book. 9591 on the T.S.M.V. "Java" (Number of Visits 71.) Gross 8875  
 Master James J. McNeill Built at Middlesbrough By whom built Furness & Co. Ltd (86) When built 1926  
 Engines made at Greenock By whom made John & Kincaid & Co. Ltd (119) When made 1926  
 Boilers made at ditto By whom made ditto (119) When made 1926  
 Registered Horse Power 915 Owners A/S. J. Ludwig Mowbricks Reigen Port belonging to Reigen

## MULTITUBULAR BOILERS — ~~MAIN~~ AUXILIARY ~~BOILER~~ — Manufacturers of Steel Geteloffnungsluette

(Letter for record S) Total Heating Surface of Boilers 2441.97 Is forced draft fitted as fitted No. and Description of Boilers 2 Single Ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 12. 11. 25

No. of Certificate 1408 Can each boiler be worked separately yes Area of fire grate in each boiler Oil Fuel No. and Description of safety valves to each boiler Double Spring Area of each valve 4.98 Pressure to which they are adjusted 180 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 in two feet Mean dia. of boilers 11-3" Length 10-6"

Material of shell plates S Thickness 15/16" Range of tensile strength 28/32 Are the shell plates welded or flanged yes

Descrip. of riveting: cir. seams DR long. seams TR, DBS Diameter of rivet holes in long. seams 1" Pitch of rivets 4"

Leap of plates or width of butt straps 14 7/8" Per centages of strength of longitudinal joint 92.4% Working pressure of shell by rules 182 Size of manhole in shell 16 x 12" Size of compensating ring 32 3/4 x 28 3/4 x 1 1/32" No. and Description of Furnaces in each boiler 2 Deighton Material S Outside diameter 3-4 1/4" Length of plain part top 15 1/2" Thickness of plates bottom 1/32"

Description of longitudinal joint weld No. of strengthening rings yes Working pressure of furnace by the rules yes Combustion chamber plates: Material S Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 2 1/32" Pitch of stays to ditto: Sides 10 x 8" Back 9 x 9 1/4"

Top 8 x 10" If stays are fitted with nuts or riveted heads yes Working pressure by rules 180 Material of stays S Area at smallest part 19.203 Area supported by each stay 83.20 Working pressure by rules 181 End plates in steam space: Material S Thickness 1 1/32"

Pitch of stays 16 1/2 x 16 1/2" How are stays secured yes Working pressure by rules 181 Material of stays S Area at smallest part 4.57

Area supported by each stay 349.2 Working pressure by rules 182 Material of Front plates at bottom S Thickness 1" Material of Lower back plate S Thickness 25/32" Greatest pitch of stays 13 3/4" Working pressure of plate by rules 181 Diameter of tubes 3"

Pitch of tubes 4 1/4 x 4 3/16" Material of tube plates S Thickness: Front 1" Back 23/32" Mean pitch of stays 9.78 Pitch across wide water spaces 14" Working pressures by rules 184 Girders to Chamber tops: Material S Depth and thickness of girder at centre 8 1/4 x 3 1/4 (2) Length as per rule 2.462 Distance apart 8" Number and pitch of Stays in each 2 at 10"

Working pressure by rules 183 Steam dome: description of joint to shell yes % of strength of joint yes

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

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

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

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

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

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

Is the approved plan of boiler forwarded herewith yes (for Lloyds Reg. No. 18490)

Total No. of visits 71

Dates of Survey During progress of work in shops - -  
while building - -  
board vessel - -  
 See Machinery Report.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under special survey in accordance with the approved plans & the workmanship & material are of good quality. They have been shipped to Middlesbrough at which port they will be fitted on board. This Report accompanies that of the Machinery Report. (These Boilers are dupl. K. & G. Reg. No. 18490)

Survey Fee Charged £ 20.00 When applied for, 24. 2. 19. 26.  
 Travelling Expenses (if any) £ 0.00 When received, 19. 2. 19. 26.

Committee's Minute GLASGOW 2-MAR 1926

Assigned Deferred

W. Gordon-Maclean  
 Engineer Surveyor to Lloyd's Register of Shipping.  
 See Mdb 28 12643  
 Lloyd's Register Foundation  
 W230-0208