

REPORT ON BOILERS.

Received at London Office 9 MAR 1932

Date of writing Report 25-2-1932 When handed in at Local Office 26-2-1932 Port of Glasgow

No. in Reg. Book. Survey held at Blydebank Date, First Survey 17-9-31 Last Survey 24-2-1932
on the S.S. "Kowan" (Number of Visits) Gross 500 Tons Net 188

Master Built at Bowling By whom built Scott & Sons Yard No. 321 When built 1925
Engines made at Blydebank By whom made Hitchenon Blair & Co. Ld Engine No. 183 When made 1932
Boilers made at Glasgow By whom made D. Kowan & Co. Ld Boiler No. 387 When made 1922
Nominal Horse Power Owners Frontier Town S.S. Co Port belonging to Tunny

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel See See Report N° 61970 (Letter for Record)

Total Heating Surface of Boilers Is forced draught fitted Coal or Oil fired Coal

No. and Description of Boilers Working Pressure 200

Tested by hydraulic pressure to Date of test No. of Certificate Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 S.S.

Area of each set of valves per boiler {per Rule 10-11-63 as fitted 11-87-9 Pressure to which they are adjusted 200 Are they fitted with easing gear

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

Smallest distance between boilers or uptakes and bunkers or woodwork Well clear Is oil fuel carried in the double bottom under boilers no

Smallest distance between shell of boiler and tank top plating Open flange Is the bottom of the boiler insulated

Largest internal dia. of boilers Length Shell plates: Material Tensile strength

Thickness Are the shell plates welded or flanged Description of riveting: circ. seams {end inter. long. seams

Diameter of rivet holes in {circ. seams long. seams Pitch of rivets

Percentage of strength of circ. end seams {plate rivets Percentage of strength of circ. intermediate seam {plate rivets

Percentage of strength of longitudinal joint {plate rivets combined Working pressure of shell by Rules

Thickness of butt straps {outer inner No. and Description of Furnaces in each Boiler

Material Tensile strength Smallest outside diameter

Length of plain part {top bottom Thickness of plates {crown bottom Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

End plates in steam space: Material Tensile strength Thickness Pitch of stays

How are stays secured Working pressure by Rules

Tube plates: Material {front back Tensile strength Thickness

Mean pitch of stay tubes in nests Pitch across wide water spaces Working pressure {front back

Girders to combustion chamber tops: Material Tensile strength Depth and thickness of girder

at centre Length as per Rule Distance apart No. and pitch of stays

in each Working pressure by Rules Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

Working pressure by Rules Front plate at bottom: Material Tensile strength

Thickness Lower back plate: Material Tensile strength Thickness

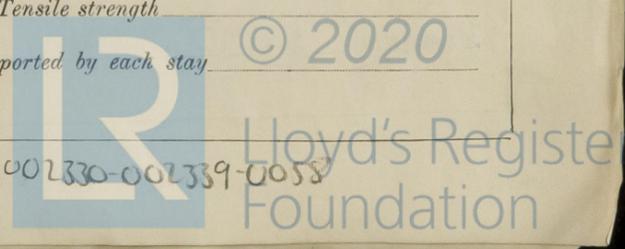
Pitch of stays at wide water space Are stays fitted with nuts or riveted over

Working Pressure Main stays: Material Tensile strength

Diameter {At body of stay, or Over threads No. of threads per inch Area supported by each stay

Working pressure by Rules Screw stays: Material Tensile strength

Diameter {At turned off part, or Over threads No. of threads per inch Area supported by each stay



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Working pressure by Rules _____ Are the stays drilled at the outer ends _____ Margin stays: Diameter { At turned off part, or Over threads _____ Working pressure by Rules _____

No. of threads per inch _____ Area supported by each stay _____ Working pressure by Rules _____

Tubes: Material _____ External diameter { Plain _____ Stay _____ Thickness { _____ No. of threads per inch _____

Pitch of tubes _____ Working pressure by Rules _____ Manhole compensation: Size of opening in shell plate _____ Section of compensating ring _____ No. of rivets and diameter of rivet holes _____

Outer row rivet pitch at ends _____ Depth of flange if manhole flanged _____ 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, _____ Manufacturer. _____

Dates { During progress of work in shops - - } _____ Are the approved plans of boiler and superheater forwarded herewith _____ (If not state date of approval.) _____

while { During erection on board vessel - - - } _____

SEE ACCOMPANYING MACHINERY REPORT.

Is this Boiler a duplicate of a previous case ~~no~~ If so, state Vessel's name and Report No. _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This Boiler has been securely fitted on board, and the safety valves adjusted under steam.*

A.S.
26/2/32.

Survey Fee £ : : When applied for, 19 _____

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

Jas. Cairns
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 8 - MAR 1932**

Assigned **SEE ACCOMPANYING MACHINERY REPORT.**



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Date of writing _____

No. in Reg. Book. _____

Master _____

Engines made _____

Boilers made _____

Nominal Horsepower _____

MULTITUBULAR

Manufacture _____

Total Heating Surface _____

No. and Description of Tubes _____

Tested by hydraulic pressure _____

Area of Fire Grates _____

Area of each grate _____

In case of double bottom _____

Smallest distance between tubes _____

Smallest diameter of tubes _____

Largest internal diameter of tubes _____

Thickness of tubes _____

long. seams _____

Percentage of tubes fitted with staybolts _____

Percentage of tubes fitted with staybolts _____

Thickness of plates _____

Material of plates _____

Length of plates _____

Dimensions of plates _____

End plates of tubes _____

How are staybolts fitted _____

Tube plates _____

Mean pitch of tubes _____

Girders to which tubes are attached _____

at centre _____

in each _____

Tensile strength of tubes _____

Pitch of stays _____

Working pressure of tubes _____

Thickness of tubes _____

Pitch of staybolts _____

Working pressure of staybolts _____

Diameter { At _____ Over _____

Working pressure of staybolts _____

Diameter { At _____ Over _____