

REPORT ON BOILERS.

No. 86308

10 OCT 1930

Received at London Office

5a.

Writing Report

When handed in at Local Office

8/10/1930 Port of Newcastle-on-Tyne

Survey held at

Wallsend.

Date, First Survey 21st Nov/29. Last Survey 2 Oct 1930

on the

S.S. "City of Hankow"

(Number of Visits) Gross 7369 Tons Net 4765

Built at W. Hartlepool By whom built W. Gray & Co Ltd Yard No. ✓ When built 1915-6

made at Hartlepool By whom made Ben Har Engineering Engine No. ✓ When made do

made at do By whom made do Boiler No. ✓ When made do

Horse Power 211 Owners Montgomery & Winkman (1920) Ltd Port belonging to Liverpool.

TITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Superheaters only.

(Letter for Record)

Coal or Oil fired

Working Pressure

Description of Boilers

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

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

of each set of valves per boiler {per Rule as fitted} Pressure to which they are adjusted Are they fitted with easing gear

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

distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

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

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

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

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

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

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

of butt straps {outer inner} No. and Description of Furnaces in each Boiler Tensile strength Smallest outside diameter

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

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

ates in steam space: Material Tensile strength Thickness Pitch of stays

re stays secured Working pressure by Rules

ates: Material {front back} Tensile strength Thickness

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

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

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

Working pressure by Rules Combustion chamber plates: Material

strength Thickness: Sides Back Top Bottom

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

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

Lower back plate: Material Tensile strength Thickness

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

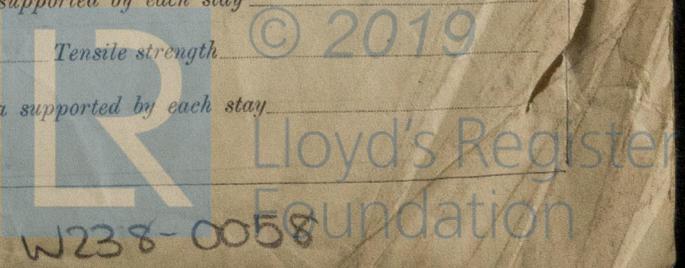
g Pressure Main stays: Material Tensile strength

At body of stay, No. of threads per inch Area supported by each stay

Over threads g pressure by Rules Screw stays: Material Tensile strength

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

Over threads



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

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 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 of stays _____ Inner radius of crown _____ Working pressure by Rules _____

How connected to shell _____ Size of doubling plate under dome _____ Diameter of rivet holes of rivets in outer row in dome connection to shell _____

Type of Superheater *North Eastern Smoke tube* Manufacturers of *Weldless steel tubes & Steel castings forged by Birmingham Steel Co*

Number of elements *main Bh 210 aux Bh 56* Material of tubes *polish drawn steel* Internal diameter and thickness of tubes *1 1/4" x 2.5"*

Material of headers *forged steel* Tensile strength *26 to 30 tons* Thickness *main 1/2" aux 1/8"* Can the superheater be shut the boiler be worked separately *yes* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *yes*

Area of each safety valve *3.1416* High lift. Are the safety valves fitted with easing gear *yes* Working pressure Rules *225 lbs* Pressure to which the safety valves are adjusted *230 lbs* Hydraulic test tubes *1500 lbs* castings *675 lbs* and after assembly in place *500 lbs* Are drain cocks or cocks to free the superheater from water where necessary *yes*

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with *yes*

The foregoing is a correct description, _____

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

while building { During erection on board vessel - - } Total No. of visits _____

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These superheaters have been built under special survey, material & workmanship good. Hydraulic tests satisfactory, satisfactory installed examined under steam & safety valve adjusted.

Survey Fee £ : : When applied for, 19

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

William Butler
 Engineer Surveyor to Lloyd's Register of S

Committee's Minute TUE. 21 OCT 1937 FRI. 20 MAR 1931

Assigned TUE. 8 FEB 1937 FRI. 11 DEC 1937

TUE. 15 NOV 1937

Lloyd's Register Foundation