

REPORT ON BOILERS.

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19

Port of Shanghai

No. in Reg. Book. 31850 Survey held at Shanghai

Date, First Survey March 10th Last Survey July 15th 1937

(Number of Visits 8) Tons { Gross 3105 Net 1848

on the "PING WO"

Master _____ Built at Shanghai By whom built New Engineering & S.B. Works Ltd No. 445 When built 1922

Engines made at Shanghai By whom made New Engineering & S.B. Works Ltd Engine No. _____ When made 1922

Boilers made at Shanghai By whom made - do - Boiler No. _____ When made 1922

Nominal Horse Power _____ Owners Indo-China S.N. Co., Ltd. Port belonging to Shanghai

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel _____ (Letter for Record S)

Total Heating Surface of Boilers 2155 Sq. ft. 4310 for 2 boilers Is forced draught fitted Yes Coal or Oil fired Coal

No. and Description of Boilers 2 Single ended multitubular wet bottom Working Pressure 190 lbs.

Tested by hydraulic pressure to 380 lbs. Date of test _____ No. of Certificate _____ Can each boiler be worked separately Yes

Area of Firegrate in each Boiler 55.6 Sq. ft. No. and Description of safety valves to each boiler 2 Spring Loaded

Area of each set of valves per boiler { per Rule _____ as fitted 28.295" = 10.34 Pressure to which they are adjusted 190 lbs. Are they fitted with easing gear Yes

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 2'-0" Is oil fuel carried in the double bottom under boilers _____

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

Largest internal dia. of boilers 13'-6" Length 11'-6" Shell plates: Material Steel Tensile strength 28-32 TONS

Thickness 1 3/16" Are the shell plates welded or flanged No Description of riveting: circ. seams { end Double 3 1/2" Pitch inter. _____

long. seams Trelle Diameter of rivet holes in { circ. seams _____ long. seams 1 1/4" Pitch of rivets { _____ plate _____ 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 15/16" inner 1 1/16" No. and Description of Furnaces in each Boiler 3 Morrison's corrugated Furnace

Material Steel Tensile strength 26 TO 30 TONS Smallest outside diameter 3'-7 3/4" 40.0625

Length of plain part { top 6 3/4" bottom 6 3/4" Thickness of plates { crown 1 7/32" bottom 1 7/32" Description of longitudinal joint No

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

End plates in steam space: Material Steel Tensile strength 26-30 TONS Thickness 1 1/8" Pitch of stays 16" x 18"

How are stays secured Nuts and Washers Working pressure by Rules _____

Tube plates: Material { front Steel back Steel Tensile strength { _____ Thickness { 1 3/16" 1 1/16"

Mean pitch of stay tubes in nests 7 1/2" 9 3/8" Pitch across wide water spaces _____ Working pressure { front _____ back _____

Girders to combustion chamber tops: Material Steel Tensile strength 28 TO 32 TONS Depth and thickness of girder _____

at centre 2 (7 1/2" x 5/8") Length as per Rule 28" Distance apart 5 1/8" 8 No. and pitch of stays _____

in each 2, 8 1/2" Working pressure by Rules _____ Combustion chamber plates: Material Steel

Tensile strength 26 TO 30 TONS Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 3/4"

Pitch of stays to ditto: Sides 8 1/2" x 8" Back 8 3/4" x 8" Top 8 1/2" x 8" Are stays fitted with nuts or riveted over Nuts & Riveted

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

Thickness 1 3/16" Lower back plate: Material Steel Tensile strength _____ Thickness 3/4"

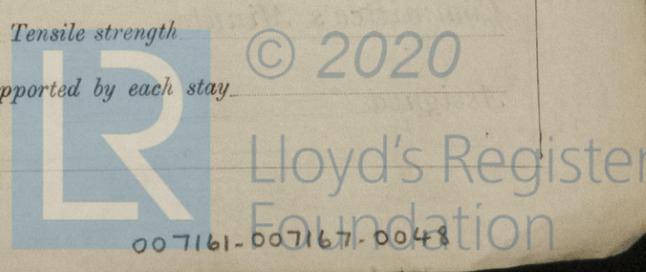
Pitch of stays at wide water space _____ Are stays fitted with nuts or riveted over With nuts

Working Pressure _____ Main stays: Material Steel Tensile strength _____

Diameter { At body of stay, 3" or _____ No. of threads per inch 7 Area supported by each stay _____

Working pressure by Rules _____ Screw stays: Material Steel Tensile strength _____

Diameter { At turned off part, 5/8" or _____ No. of threads per inch 11 Area supported by each stay _____



Working pressure by Rules _____ Are the stays drilled at the outer ends _____ Margin stays: Diameter { At turned off part. ^{1 1/4"} or Over threads ^{1 3/4"}

No. of threads per inch 11 Area supported by each stay _____ Working pressure by Rules _____

Tubes: Material Steel External diameter { Plain 2 1/2" Stay 2 1/2" Thickness { 9 W.G. 5/16 No. of threads per inch 11

Pitch of tubes _____ Working pressure by Rules _____ Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 2-4" x 2-4" 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 _____

How connected to shell _____ Inner radius of crown _____ Working pressure by Rules _____

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 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 _____ 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 _____

The foregoing is a correct description,

Manufacturer.

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 boilers have worked satisfactorily since being installed in the vessel. They have been examined from time to time over a period of years by the Surveyors to this Society. The workmanship is sound. They are eligible, in my opinion, for Classification, with the kind of survey already assigned. Drawings of main & doker tubes forwarded.*

Survey Fee See Rpt 1 £ : : } When applied for, 19

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

G. Pinner
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 16 MAY 1939

Assigned

Noted



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