

REPORT ON BOILERS.

No. 6340

Received at London Office 26 NOV. 1928

Date of writing Report 23rd Oct. 1928 When handed in at Local Office 24th Oct. 1928 Port of Hongkong

No. in Reg. Book. 87565 Survey held at Hongkong Date, First Survey May 2nd Last Survey Oct. 20th 1928
(Number of Visits 25) Gross 210.40 Net 73.48

on the Steel Twin Screw Ferry Steamer "VIOLET" Tons

Builder Hongkong By whom built H'Kong + W'poa Deck Co. Ltd. Yard No. 651 When built 1928

Engines made at Hongkong By whom made H'Kong + W'poa Deck Co. Ltd. Engine No. 396/7 When made 1928

Boilers made at Hongkong By whom made H'Kong + W'poa Deck Co. Ltd. Boiler No. 726 When made 1928

Nominal Horse Power 55.4 Owners Federated Malay States Railway Port belonging to Penang

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel The Lanarkshire Steel Co. David Colville Sons (Letter for Record A/S)

Total Heating Surface of Boilers 983 sq ft Is forced draught fitted no Coal or Oil fired Coal

No. and Description of Boilers 1 - S.E. Multitubular Working Pressure 190 lbs.

Tested by hydraulic pressure to 335 lbs. Date of test 9-8-28 No. of Certificate 165 Can each boiler be worked separately yes

Area of Firegrate in each Boiler 36.6 sq ft No. and Description of safety valves to each boiler 2 - 1 3/4" Cockburn's High Lift

Area of each set of valves per boiler 3.9 sq in 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 yes

Smallest distance between boilers or uptakes and bunkers or woodwork 12" Is oil fuel carried in the double bottom under boilers no

Smallest distance between shell of boiler and tank top plating Open floors Is the bottom of the boiler insulated no

Largest internal dia. of boilers 11'-0" Length 10'-6" Shell plates: Material steel Tensile strength 28 to 32 Tons

Thickness 31/32" Are the shell plates welded or flanged no Description of riveting: circ. seams end double lap

Joint, seams T.R.D.B.S. Diameter of rivet holes in 1" Pitch of rivets 2.983"

Percentage of strength of circ. end seams 66.5 Percentage of strength of circ. intermediate seam 44.6

Percentage of strength of longitudinal joint 86.0 Working pressure of shell by Rules 192 lbs.

Thickness of butt straps 3/4" No. and Description of Furnaces in each Boiler 2 - Morison

Material Steel Tensile strength 26 to 30 Tons Smallest outside diameter 41 1/8"

Length of plain part 10" Thickness of plates 9/16" Description of longitudinal joint Welded

Dimensions of stiffening rings on furnace or c.c. bottom yes Working pressure of furnace by Rules 198 lbs.

End plates in steam space: Material Steel Tensile strength 26 to 30 Tons Thickness 15/16" Pitch of stays 13 1/2" x 15"

How are stays secured nuts inside + outside Working pressure by Rules 198 lbs.

End plates: Material Steel Tensile strength 26 to 30 TONS Thickness 3/4"

Mean pitch of stay tubes in nests 9 1/4" x 9 1/2" Pitch across wide water spaces 14" Working pressure 201 lbs.

Orders to combustion chamber tops: Material Steel Tensile strength 28 to 32 Tons Depth and thickness of girder

Centre 9 1/2" x 1" Length as per Rule 30 19/32" Distance apart 7 5/8" No. and pitch of stays

Each 3 - 7 3/8" Working pressure by Rules 198 lbs. Combustion chamber plates: Material Steel

Tensile strength 26 to 30 Tons Thickness: Sides 9/16" Back 21/32" Top 9/16" Bottom 3/4"

Pitch of stays to ditto: Sides 7 3/8" x 7 5/8" Back 7 7/8" x 9" Top 7 3/8" x 7 5/8" Are stays fitted with nuts or riveted over nuts

Working pressure by Rules 192.7 lbs. Front plate at bottom: Material Steel Tensile strength 26 to 30 Tons

Thickness 15/16" Lower back plate: Material Steel Tensile strength 26 to 30 Tons Thickness 15/16"

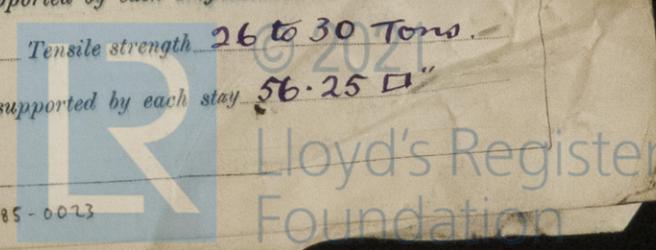
Pitch of stays at wide water space 7 7/8" x 14" Are stays fitted with nuts or riveted over nuts

Working Pressure 191.2 lbs. (least) Main stays: Material Steel Tensile strength 28 to 30 Tons

Diameter 2 3/8" x 2 1/2" No. of threads per inch 6 Area supported by each stay 226.5 sq in + 314 sq in

Working pressure by Rules 212 lbs + 197 1/2 lbs. Screw stays: Material Steel Tensile strength 26 to 30 Tons

Diameter 2", 1 3/4", 1 5/8" + 1 1/2" No. of threads per inch 9 Area supported by each stay 56.25 sq in



Working pressure by Rules 223 lbs. Are the stays drilled at the outer ends Yes Margin stays: Diameter { At turned off part, 1 3/4" or Over threads. 1 3/4"

No. of threads per inch 9 Area supported by each stay 90.6 sq" Working pressure by Rules 200 lbs.

Tubes: Material Lap welded Iron External diameter { Plain 3 1/2" Stay 3 1/2" Thickness { 8 L.S.G. 5/16 + 3/8" No. of threads per inch 9

Pitch of tubes 4 5/8" x 4 3/4" Working pressure by Rules 215 lbs. Manhole compensation: Size of opening in shell plate 15 3/4" x 19 3/4" Section of compensating ring 22" x 1 1/16" No. of rivets and diameter of rivet holes 42 - 1 1/8"

Outer row rivet pitch at ends 8 1/2" Depth of flange if manhole flanged { Top 3 1/2" Bottom 3 1/4" Steam Dome: Material None

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 None 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 _____

Area of each safety valve _____ Are the safety valves fitted with easing gear _____ Working pressure as per Rules _____ 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 23 inclusive for boilers been complied with Yes

HONGKONG & WHAMPOA DOCK CO., LTD.
The foregoing is a correct description,
R. H. Dyer Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1928
May 2, 7, 18, 21, 30 June 1, 7, 12, 15 Are the approved plans of boiler and superheater forwarded herewith Kobel
18, 25, 30 July 12, 19, 24 Aug. 1, 7 + 9, (If not state date of approval.) 21-2-2
During erection on board vessel - - - Aug. 31, Sept. 10, 24, 26 Oct. 3, 15 + 20 Total No. of visits 25

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The materials have been tested by the Surveyors to this Society and boiler has been constructed as shown on approved plan, copy of which is in the London office.
The workmanship is good and the boiler has been satisfactorily tested by hydraulic pressure in accordance with the rules.

Indentification marks on boiler: _____

No. 165 H.Kg.
LLOYD'S TEST
335 lbs.
WP 190 lbs.
9-8-28. T.S.M.

In conjunction with the machinery it is recommended that a vessel be classed with Lloyd's Machinery Certificate & the record of L.M.C. 10-28. C.L. be made in the Register Book.

Survey Fee _____
Travelling Expenses (if any) _____
See Machinery Report

When applied for, _____ 192
When received, _____ 192

J. H. Morrison
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 30 NOV 1928

Assigned See Minute on HKg Rpt 6340 attached



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