

REPORT ON BOILERS.

No. 3152

Received at London Office 11 JUN 1931

Date of writing Report 13th May 1931. When handed in at Local Office

Port of SHANGHAI, CHINA.

No. in Survey held at SHANGHAI

Date, First Survey 5th Nov., 1930 Last Survey 6th May, 1931.

Reg. Book. on the Twin Screw Motor Vessel "HO KWANG"

(Number of Visits 18)

Gross 685

Tons Net 363

Builder Built at SHANGHAI

By whom built New Eng. & Shipbldg. Wks., Ltd. When built 1931.

Engines made at Keighley, England.

By whom made H. Widdop & Co., Ltd.

when made 1931.

Boilers made at Shanghai

By whom made New Eng. & Shipbuilding Wks., Ltd.

when made 1931.

Registered Horse Power

Owners Asiatic Petroleum Co. (North China) Ltd. Port belonging to SHANGHAI

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel David Cameron & Co.

Letter for record S) Total Heating Surface of Boilers 569.72 sq. ft. Is forced draft fitted No No. and Description of Boilers One Working Pressure 160 lb. Tested by hydraulic pressure to 300 lb. Date of test 27-12-30.

No. of Certificate Can each boiler be worked separately - Area of fire grate in each boiler Oil Fuel No. and Description of

Safety valves to each boiler 2" Double Spring Valves Area of each valve 3.1416 Pressure to which they are adjusted 160 lb.

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 Mean dia. of boilers 8'-0" Length 8'-0"

Material of shell plates Steel Thickness 21/32" Range of tensile strength 28 to 32 Are the shell plates welded or flanged

Description of riveting: cir. seams Double long. seams rivets omitted in outer row. Diameter of rivet holes in long. seams 15/16" Pitch of rivets 3"

Gap of plates or width of butt straps 9-1/8" Per centages of strength of longitudinal joint rivets 81% plate 81.94% Working pressure of shell by

Rules 163 lb. Size of manhole in shell 12" x 16" Size of compensating ring No. and Description of Furnaces in each

Boiler One Morrison's Material Steel Outside diameter 3'-2 1/4" Length of plain part top 7" Thickness of plates crown bottom 6-11/16"

Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules 176 lb. Combustion chamber

Plates: Material Steel Thickness: Sides 9/16" Back 17/32" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 7"x 8" Back 7 5/8"x 7 3/4"

8 1/2"x 7" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 162 lb. Material of stays Steel Diameter at

Smallest part 1.19 Area supported by each stay 69 sq. in. Working pressure by rules 162 lb. End plates in steam space: Material Steel Thickness 13/16"

Pitch of stays 16"x 11" How are stays secured nuts & washers Working pressure by rules 178 lb. Material of stays Steel Diameter at smallest part 3.26"

Area supported by each stay 176 sq. in. Working pressure by rules 197 lb. Material of Front plates at bottom Steel Thickness 11/16"

Lower back plate Steel Thickness 3/32" Greatest pitch of stays 7 5/8"x 7 3/4" Working pressure of plate by rules 186 lb. Diameter of tubes 3" O.D.

Pitch of tubes 4 1/8"x 4 1/4" Material of tube plates Steel Thickness: Front 11/16" Back 11/16" Mean pitch of stays 8 1/2" Pitch across wide

Water spaces 8 1/2" Working pressures by rules 168 lb. Girders to Chamber tops: Material Steel Depth and thickness of

Order at centre 6 1/4" Length as per rule 21-5/8" Distance apart 8 1/2" Number and pitch of Stays in each 2-7" pitch

Working pressure by rules 172 lb. Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

Separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Plates Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

Stays stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

Made at By whom made When made Where fixed Working pressure

Tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

Enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

Strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Gap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

Plates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

Signature of Engineer

Manufacturer.

5-11-30, 11-11-30, 17-11-30, 19-11-30, 20-11-30, 24-11-30, 26-11-30, 1-12-30,

5-12-30, 10-12-30, 16-12-30, 19-12-30, 27-12-30.

11-2-31, 19-2-31, 23-3-31, 10-4-31, 6-5-31.

Is the approved plan of main boiler forwarded herewith No sent

" " " donkey " " " Lloyd's Register

office.

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

The Boiler has been built under special Survey in accordance with the approved plans and to Rule requirements. The materials as far as can be ascertained are sound and the workmanship has been found good. The boiler finally examined under steam, and its safety valves adjusted for a working pressure of 160 lb per square inch.

It is Recommended that the record of + LMC 5,31, W.P. 160 lb. be made in the Register Book in the case of this vessel.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for,
Special ...	£	See: Mchy:		19
Donkey Boiler Fee ...	£	Repbtr. :		When received,
Travelling Expenses (if any) £	:	:		19

Committee's Minute FRI. 26 JUN 1931

Assigned

See F.B. Rpt.

J. Brooke Smith

Engineer Surveyor to Lloyd's Register of ~~British and Foreign~~ Shipping.



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Foundation