

REPORT ON BOILERS. 21st No. 2363

Received at London Office

Date of writing Report 24th May 1926 When handed in at Local Office 19 Port of Shanghai
 No. in Survey held at Shanghai Date, First Survey 25th May 1925 Last Survey 8th May 1926
 Reg. Book. on the Steel Twin Screw M/V "HAI-KWANG" (Number of Visits 8) Gross 898.62 Tons Net 500.91
 Master Built at Shanghai By whom built Huo Eng & S.B. Y.M. When built 1926
 Engines made at Lincoln By whom made Ruston & Hornsby when made 1919
 Boilers made at Shanghai By whom made Huo Eng & S.B. Y.M. when made 1925
 Registered Horse Power Owners Anglo Saxon Petroleum Co Port belonging to Shanghai

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel Hallside & S. Durham, S.C.

Letter for record S Total Heating Surface of Boilers 684 sq ft Is forced draft fitted no No. and Description of Boilers One cylindrical 1 SB Working Pressure 160 lb Tested by hydraulic pressure to 290 lb Date of test 6-10-25
 No. of Certificate 33 Can each boiler be worked separately no Area of fire grate in each boiler 28.5 sq ft No. and Description of safety valves to each boiler 2 - Spring loaded Area of each valve 3.17 sq in 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 no
 Smallest distance between boilers or uptakes and bunkers or woodwork 15" Mean dia. of boilers 9'-3" Length 9'-0"
 Material of shell plates Steel Thickness 3/4" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams Double long. seams Double Butt Diameter of rivet holes in long. seams 13/16" Pitch of rivets 5 1/2"
 Lap of plates or width of butt straps 12" Per centages of strength of longitudinal joint rivets 86.4 Working pressure of shell by rules 161.32 lb Size of manhole in shell 16" x 12" Size of compensating ring 32" x 30" x 3/4" No. and Description of Furnaces in each boiler 2 Morrison Material Steel Outside diameter 3'-1 1/4" Length of plain part top 32" Thickness of plates bottom 32"
 Description of longitudinal joint no No. of strengthening rings no Working pressure of furnace by the rules 170 lb Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 1 1/4" Pitch of stays to ditto: Sides 8 x 7 1/2" Back 7 3/4 x 7 1/4"
 Top 7 1/2 x 7" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180 lb Material of stays Steel Diameter at smallest part 1-162" Area supported by each stay 60 sq in Working pressure by rules 241 lb End plates in steam space: Material Steel Thickness 3/4"
 Pitch of stays 13" x 13" How are stays secured Double Butts Working pressure by rules 174 lb Material of stays Steel Diameter at smallest part 2.05"
 Area supported by each stay 169 sq in Working pressure by rules 205 lb Material of Front plates at bottom Steel Thickness 5/8" Material of lower back plate Steel Thickness 1/2" Greatest pitch of stays 7 3/4 x 12" Working pressure of plate by rules 173.5 lb Diameter of tubes 3"
 Pitch of tubes 4 1/4" x 4" Material of tube plates Steel Thickness: Front 1/2" Back 9/16" Mean pitch of stays 8 1/2" x 8" Pitch across wide water spaces 13" Working pressures by rules 166.5 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7" x 1 1/4" Length as per rule 2-17/8" Distance apart 7" Number and pitch of Stays in each 2 - 7 1/2"
 Working pressure by rules 218.5 Superheater or Steam chest; how connected to boiler no Can the superheater be shut off and the boiler worked separately no Diameter no Length no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no Pitch of rivets no Working pressure of shell by rules no Diameter of flue no Material of flue plates no Thickness no
 If stiffened with rings no Distance between rings no Working pressure by rules no End plates: Thickness no How stayed no
 Working pressure of end plates no Area of safety valves to superheater no Are they fitted with easing gear no

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
 Lap 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, C. J. ... Manufacturer.

Dates of Survey while building: During progress of work in shops -- 1925 Mar 25th May 8th 28 Sept 23rd Oct 6th
 During erection on board vessel -- 1926 Jan 6th Feb 24th May 8th
 Total No. of visits 8

Is the approved plan of main boiler for donkey boiler no



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GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. *This boiler has been built under Special Survey in accordance with the approved plans and the Rules, the material & workmanship are good. Safety Valve adjusted under steam to 160 lbs.*

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

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

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

Committee's Minute

TUES. 21 SEP 1926
FRI. 6 AUG 1926

*See attached
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