

K 460 Naples Maru

REPORT ON BOILERS.

No. 2587.

Port of Kobe Received at London Office SAITSE 1919
 Date, first Survey 18th Feb. Last Survey 17th July 1919.
 (Number of Visits 11.)
 No. in Survey held at Kobe
 g. Book. Steel Single Screw Steamer "Naples Maru" Gross 5860
 Net 4260
 Name N. MARUYAMA Built at Kobe By whom built The Kawasaki Dockyad. Co. Ltd. When built 1919
 Engines made at Kobe By whom made The Kawasaki Dockyad. Co. Ltd. when made 1919
 Boilers made at do By whom made do when made 1919
 Registered Horse Power NHP 440 Owners The Kawasaki Kisen Kabushiki Kaisha Port belonging to Kobe

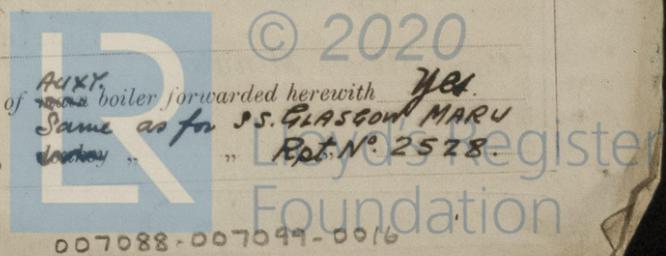
VERTICAL TUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Illinois Steel, Carnegie Steel, Amer. Spiral Pipe Co.
 Letter for record S Total Heating Surface of Boilers 11320" Is forced draft fitted yes No. and Description of Boilers One S. & C. Aux. Boiler Working Pressure 200lb. Tested by hydraulic pressure to 400lb. Date of test 25-4-19.
 No. of Certificate 440YDS 400 LBS 25-4-19 AW R Can each boiler be worked separately yes Area of fire grate in each boiler 33" No. and Description of Safety valves to each boiler Two Direct Spring Area of each valve 5.93" Pressure to which they are adjusted 205 lb.
 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 18" Mean dia. of boilers 10'-10" Length 10'-6"
 Material of shell plates Steel Thickness 1" Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams Doub. rivet long. seams Trefle riveted Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 6 29 + 3 29
 Gap of plates or width of butt straps 1 1/2" x 1" Per centages of strength of longitudinal joint rivets 95.2 Working pressure of shell by plate 84.6
 Plates 200 lb. Size of manhole in shell 12" x 16" Size of compensating ring (4 1/2" flange) 1" No. and Description of Furnaces in each boiler Two Morrison Material Steel Outside diameter 40 1/4" Length of plain part top 9 1/2" Thickness of plates bottom 9 1/2"
 Description of longitudinal joint Weld No. of strengthening rings 0 Working pressure of furnace by the rules 236 lb. Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 3/4" Pitch of stays to ditto: Sides 7 x 8 1/2 Back 7 1/2 x 8 1/2
 Top 7 x 8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 201 lb. Material of stays Steel Diameter at smallest part 1.78" Area supported by each stay 66" Working pressure by rules 212 lb. End plates in steam space: Material Steel Thickness 7/8"
 Pitch of stays 15 1/2 x 1 1/2 How are stays secured Doub. nuts Working pressure by rules 202 lb. Material of stays Steel Diameter at smallest part 5.24
 Area supported by each stay 15 1/2 x 1 1/2 Working pressure by rules 238 lb. Material of Front plates at bottom Steel Thickness 3/4" Material of lower back plate Steel Thickness 3/4" Greatest pitch of stays 13 1/2" at wide space doubled 7/8" Working pressure of plate by rules 200 lb. Diameter of tubes 3 1/4"
 Pitch of tubes 1 1/2" mean Material of tube plates Steel Thickness: Front 7/8" Back 3/4" Mean pitch of stays 8 3/4" Pitch across wide water spaces 13 1/2" doubled 5/8" Working pressures by rules 200 lb. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 x 13/16 (two) Length as per rule 27" Distance apart 8" Number and pitch of Stays in each 3 @ 7"
 Working pressure by rules 236 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
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 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 P.T.O.

VERTICAL DONKEY BOILER No. _____ Description _____ Manufacturers of steel _____
 Made at _____ By whom made _____ When made _____ Where fixed _____
 Working pressure tested by hydraulic pressure to _____ 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 _____
 Stayed by _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

The foregoing is a correct description, Please sign here
Kawasaki Dockyad Co., Ltd. Manufacturer. AW

Per. 1919
 Dates of Survey while building: During progress of work in shops - - - Secy. 18, 28; Mar 3, 29; Apr. 8, 16, 25;
 During erection on board vessel - - - June 30; July 7, 12, 17.
 Total No. of visits 11.

Is the approved plan of auxiliary boiler forwarded herewith yes
 Same as for S.S. GLASGOW MARU
 No. 2528.



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

This Boiler has been made and fitted under Special Survey. The Rules have been complied with and the materials and Workmanship found good. The vessel is eligible, it is submitted, for the Record One 5. to Aux. Blr. 200 lbs.

AWJ.

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...	£	Included in	When applied for.
Special	£	Machy.	19.
Donkey Boiler Fee ...	£	Spec. Survey.	When received.
Travelling Expenses (if any) £	£	Fees.	19.

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

TUE 14 OCT. 1919

Committee's Minute

Assigned



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Foundation