

S.S. "Mastar"

MON. 25 JUN 1906

Rpt. 5.

REPORT ON BOILERS.

No. 23939

Port of Glasgow

Received at London Office WED. 9 MAY 1906

No. in Reg. Book

Survey held at Amman

Date, first Survey 16 Febry

Last Survey 24 April 1906

(Number of Visits 14)

125 on the Donkey Boilers for North Eastern Marine Coy Ltd

Gross Tons 1218
Net Tons 922

Master Richie Built at Antwerp

By whom built Chambres Naval, Antwerp When built 1906

Engines made at Sunderland By whom made North Eastern Marine Eng'g Soc. Ltd. when made 1906

Boilers made at do. By whom made do. do. when made 1906

Registered Horse Power ✓ Owners S. Tripcoritch Port belonging to Trieste

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record) Total Heating Surface of Boilers Is forced draft fitted No. and Description of Boilers Working Pressure Tested by hydraulic pressure to Date of test

No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler No. and Description of safety valves to each boiler Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear 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 Length

Material of shell plates Thickness Range of tensile strength Are the shell plates welded or flanged

Descrip. of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets

Lap of plates or width of butt straps Per centages of strength of longitudinal joint rivets Working pressure of shell by plate

rules Size of manhole in shell Size of compensating ring No. and Description of Furnaces in each boiler

Material Outside diameter Length of plain part top Thickness of plates crown bottom bottom

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

plates: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

Top If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space: Material Thickness

Pitch of stays How are stays secured Working pressure by rules Material of stays Diameter at smallest part

Area supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes

Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of girder at centre Length as per rule Distance apart Number and pitch of Stays in each

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

If 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

R 1577
4-12-0
LLOYD'S REGISTER
AB

VERTICAL DONKEY BOILER— No. 3938 Description Boehran Manufacturers of steel Glydebridge

Made at Amman By whom made Boehran & Coy Amman When made 1906 Where fixed in Stockholm Working pressure 100 lbs

tested by hydraulic pressure to 200 lbs Date of test 24/4/06 No. of Certificate 8043 Fire grate area 2 1/2 Description of safety valves Spring loaded.

No. of safety valves Two Area of each 7.07 Pressure to which they are adjusted 105 lbs If fitted with easing gear No If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 6'6" Length 14'6" Material of shell plates Steel Thickness 9/16" - 19/32" Range of tensile strength 24/32 tons Descrip. of riveting long. seams Double rivet Dia. of rivet holes 2 3/4" Working pressure of shell by rules 100 lbs Thickness of shell crown plates 9/16"

Lap of plating 4 1/2" Per centage of strength of joint Rivets 6 3/4" Working pressure of shell by rules 100 lbs Thickness of shell crown plates 9/16"

Radius of do. 3'3" No. of Stays to do. none Dia. of stays 1 1/2" Radius of furnace Top 2'4 1/2" Bottom 5'6" Length of furnace 3'2"

Thickness of furnace plates 14/32 Description of joint Lap single rivet Working pressure of furnace by rules 101 lbs Thickness of furnace crown plates 14/32 Radius of do. 2'4 1/2" Stayed by ✓ Diameter of uptake 13" x 22" Thickness of uptake plates 9/16"

Thickness of tubes plates 19/32 with 1/4" steel stay to top of each tube plate. The foregoing is a correct description,

FOR BOEHREN & CO., AMMAN, LIMITED, Manufacturer.

During progress of work in shops - - 1906: Febry 16 23 Mar. 21 30 Apr 6

During erection on board vessel - - 11 18 20 24 May 18, 31 June 5, 6, 12

Total No. of visits 9 + 5 = 14

Is the approved plan of main boiler forwarded herewith Yes

" " " donkey " " do.

Lloyd's Register Foundation
W1227-0045

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

This boiler has been made under survey the materials & workmanships are of good description and the test on completion satisfactory

This boiler has been fitted on board the s/s "Mortar" in accordance with the Society's Rules It has been tested under steam and the safety valves adjusted to blow at 105 lbs per sq pressure.

J. P. Hornish

Certificate (if required) to be sent to the Committee's Minute.

	£	s	d	When applied for.	When received.
The amount of Entry Fee...	2	2	0	19	
Special ...					
Donkey Boiler Fee ...					
Travelling Expenses (if any) £				19	

Committee's Minute

Glasgow - 8 MAY 1908

TUES. 26 JUN 1906

Assigned Transmit to London.

James McCallum
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.
 Clyde District



Lloyd's Register Foundation