

REPORT ON WATER TUBE BOILERS.

No. 1000

Received at London Office

29 JUN 1953

ing Report 29th May 1953 When handed in at Local Office 19 Port of Yokohama
 Survey held at Tokyo & Shimizu Japan Date, First Survey 15th July 1952 Last Survey 23rd May 1953
 on the S.S. "Leonidas" (Number of Visits 5-6) Tons Gross.....
 Shimizu, Japan By whom built Nippon Steel Tube Co., Ltd. Yard No. 157 When built 1953. 5 mo
 de at Tokyo, Japan By whom made Ishikawajima Heavy Engine No. IT 2188 When made 1953. 5 mo
 ing for at Tokyo & Shimizu Japan By whom made Industries Co., Ltd. Boiler No. IB 437 When made 1953. 5 mo
 rse Power Owners Miramonte Compania Naviera S.A. Port belonging to Monrovia Liberia

TUBE BOILERS MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel Tubes - Yawata Iron & Steel Co., Ltd.
 approval of plan 11-8-52 Design 33 Kg/cm² of Spt. outlet No. and Description or Type
 2 x Two drum type W.T. boiler Working Pressure 427 lbs. Tested by Hydraulic Pressure to 754 lbs. Date of Test 20-11-52
 YBC 23 YBC 24 Can each boiler be worked separately Yes Total Heating Surface of Boilers 6888 sq. ft. x 2 640 sq. m. x 2
 draught fitted Yes Area of Fire Grate (coal) in each Boiler — (Include super heater)
 of burners (oil) in each boiler Four (4) Todd type pressure atomizing burner No. and description of safety valves on
 One double high lift type 85 mm φ x 2 Area of each set of valves per boiler per rule 14.89 sq. in (96.0 cm²)
 as fitted 17.6 sq. in (113.5 cm²) Pressure to which they
 33.8 Kg/cm² Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter
 boiler — Smallest distance between boilers or uptakes and bunkers or woodwork about 2.500 mm Height of boiler 9570 mm
 length 7.160 mm x 4.700 mm Steam Drums: Number in each boiler One (1) Inside diameter 1300 mm
 of plates Tube plate 65 mm Shell plate 28 mm Range of tensile strength 27.1 ~ 30.0 Ton/□ Are drum shell plates welded
 Welded If fusion welded, state name of welding firm Ishikawajima H.I. Co., Ltd. Tokyo Have all the requirements of the Rules
 vessels been complied with Yes Description of riveting: Circ. seams — long. seams —
 of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of
 Plate — Rivet — Diameter of tube holes in drum 50.8 mm x 38.6 mm Pitch of tube holes 95 mm x 66 mm
 e strength of shell in way of tubes 41.5% (38 φ tube) Steam Drum Heads or Ends: Range of tensile strength 26.2 ~ 26.2 Ton/□
 of plates 45 mm Radius or how stayed 1050 mm I.R. Size of manhole or handhole 305 mm x 405 mm Water Drums: Number
 One (1) Inside diameter 1000 mm Thickness of plates 50 mm Range of tensile strength 26.2 ~ 27.0 T/□ Are drum shell plates
 flanged Welded If fusion welded, state name of welding firm Ishikawajima H.I. Co., Ltd. Tokyo Have all the requirements of the Rules
 vessels been complied with Yes Description of riveting: Circ. seams — long. seams —
 of rivet holes in long. seams — Pitch of rivets — Thickness of straps —
 e strength of long. joint: Plate — Rivet — Diameter of tube holes in drum 50.8 mm x 38.6 mm Pitch of tube holes 95 mm x 66 mm
 e strength of drum shell in way of tubes 41.5% Water Drum Heads or Ends: Range of tensile strength 27.8 ~ 28.3 Ton/□
 of plates 36 mm Radius or how stayed 800 mm Inside radius ✓ Size of manhole or handhole 305 mm x 405 mm
 or Sections: Number 3 in each boiler Material Seamless drum Thickness 3.2 + 4.0 mm Tested by hydraulic pressure to 53 Kg/cm² (754 lbs/□)
 Diameter 50 mm Thickness 4.5 mm Number 147 Total 1054 Steam Dome or Collector: Description of
 38 mm Inside diameter Thickness of shell plates Range of tensile
 Description of longitudinal joint If fusion welded, state name of welding
 Have all the requirements for the Rules for Class I vessels been complied with Diameter of rivet holes
 Thickness of straps Percentage strength of long. joint plate rivet
 End Plates: Range of tensile strength Thickness Radius or how stayed
 HEATER, Drums or Headers: Number in each boiler 2 Headers Inside diameter 190 + 9.5 mm square type
 35 + 8.75 mm Material Steel drum Range of tensile strength 34.3 ~ 36.5 T/□ Are drum shell plates welded
 If fusion welded, state name of welding firm — Have all the requirements of the Rules
 vessels been complied with — Description of riveting: Circ. seams — long. seams —
 of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of
 Plate — Rivet — Diameter of tube holes in drum 29.4 mm Pitch of tube holes 42 mm Percentage strength of
 in l in way of tubes 30% Drum Heads or Ends: Header end Thickness 65 mm Range of tensile strength 28.8 ~ 32.0 T/□
 how stayed Welded, No radius Size of manhole or handhole 90 mm x 135 mm Number, diameter, and thickness of tubes 240 - 29 mm x 3.2 mm
 hydraulic pressure to 754 lbs Date of test 22-11-52 Is a safety valve fitted to each section of the superheater which
 it off from the boiler can not shut off No. and description of safety valves One high lift safety valve 70 mm φ x 1 Area of each set
 38.5 cm² Pressure to which they are adjusted 30.9 Kg/cm² Is easing gear fitted Yes
 ear. Has the spare gear required by the Rules been supplied Yes

The foregoing is a correct description,

[Signature]

Manufacturer.

During progress of 1952: - July 15, 18, 29 Aug 15, 19, 23, 25, 26, 29 Sep. 2, 3, 6, 9, 10, 12, 16, 22, 29 Oct. 6, 10, 13, 16, 21, 23, 27, 28, 30
 work in shops - Nov. 1, 10, 13, 15, 18, 19, 20, 22, 25 Dec. 1, 5, 13, 19 Is the approved plan of boiler forwarded herewith
 Dec. 26, 27 1953: - Jan. 6, 14
 During erection on 1953: - Jan. 17, 23, 31 Feb. 1-10, 20 March 17 Total No. of visits 5-6
 board vessel - 25 April 8, 13, 21 May 23

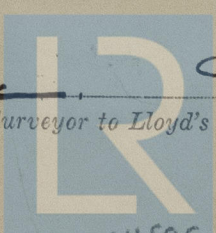
er a duplicate of a previous case No If so, state vessel's name and report No.

AL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been constructed under the supervision
 ity's Surveyors in accordance with the Rules and approved plans. The quality of workmanship and materials have
 d satisfactory. The boilers have been satisfactorily installed in the vessel and examined under steam and the
 lues adjusted as stated. It is submitted that these boilers are eligible to be classed with this Society with the
 notation of + LMC 5.53

ey Fee ... £300.000 : When applied for APR 24, 1953
 elling Expenses (if any) £ : When received 19

FRIDAY 24 JUL 1953

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
 Foundation

011595-011602-0216