

REPORT ON BOILERS.

No. 5051

Received at London Office - 1 FEB 1926

Date of writing Report 7th Nov 1925 When handed in at Local Office 19 Port of KOBE

No. in Survey held at OSAKA Date, First Survey 7 Nov 1923 Last Survey OCT 30th 1925

Reg. Book. on the S.S. ITIYO MARU (Number of Visits SEE MACH. RPT) Gross 4273.5 Tons Net 2658.8

Master Built at OSAKA By whom built OSAKA IRON WORKS LTD When built 1925

Engines made at FINSPONG By whom made SVENSKA TURBINFABRIKS A.B. LUNGSTRUM When made 1918

Boilers made at OSAKA By whom made OSAKA IRON WORKS LTD When made 1925

Registered Horse Power 562 HP Owners DO DO Port belonging to TAKASAGO

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel SOUTH DURHAM STEEL IRON CO & YAWATA STEEL CO

(Letter for record S) Total Heating Surface of Boiler 2130.3 sq ft Is forced draft fitted Y No. and Description of Boilers ONE (SE) MULTITUBULAR Working Pressure 230 LBS Tested by hydraulic pressure to 395 LBS Date of test 9-3-25

No. of Certificate 630 Can each boiler be worked separately YES Area of fire grate in each boiler 49.5 sq ft No. and Description of safety valves to each boiler 2 SPRING LOADED Area of each valve 5.94 sq in Pressure to which they are adjusted 233 lbs

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 18 in Mean dia. of boilers 13'-6" Length 12'-0"

Material of shell plates O.H. STEEL Thickness 1 7/16 in Range of tensile strength 27-48 MIN Are the shell plates welded or flanged N

Descrip. of riveting: cir. seams D.R. LAP. long. seams T.R.D.B.S Diameter of rivet holes in long. seams 1 7/16 in Pitch of rivets 9 3/4 in

Gap of plates or width of butt straps 2 1/4 in Per centages of strength of longitudinal joint rivets 90.7 Working pressure of shell by rules 231 lbs Size of manhole in shell 21 1/2 x 17 1/2 in Size of compensating ring 18 x 1 7/16 in No. and Description of Furnaces in each boiler 3 DEIGHTONS Material O.H. STEEL Outside diameter 39 5/16 in Length of plain part Thickness of plates

Description of longitudinal joint WELD No. of strengthening rings Working pressure of furnace by the rules 257 lbs Combustion chamber plates: Material O.H. STEEL Thickness: Sides 3/32 Back 3/16 WINGS Top 3/32 Bottom 7/8 Pitch of stays to ditto: Sides 8 1/2 x 8 1/2 Back 8 1/4 x 8 1/4 in

Top 8 1/4 x 8 1/2 If stays are fitted with nuts or riveted heads NUTS Working pressure by rules 243 lbs Material of stays O.H. STEEL Area at smallest part 2.1 sq in Area supported by each stay 73.2 sq in Working pressure by rules 248 End plates in steam space: Material O.H. STEEL Thickness 1 1/8 in

Pitch of stays 20 x 18 1/2 How are stays secured D. NUTS Working pressure by rules 245 Material of stays O.H. STEEL Area at smallest part 10-12 sq in

Area supported by each stay 370 sq in Working pressure by rules 299 lbs Material of Front plates at bottom O.H. STEEL Thickness 1 5/16 in Material of Lower back plate O.H. STEEL Thickness 1 in Greatest pitch of stays 15 1/4 x 8 1/4 Working pressure of plate by rules 275 Diameter of tubes 3 3/4 in

Pitch of tubes 4 1/2 x 4 3/8 Material of tube plates O.H. STEEL Thickness: Front 1 1/8 Back 7/8 Mean pitch of stays 8 7/8 Pitch across wide water spaces 14 1/2 WITH 1" CLEAR. Working pressures by rules 324 lbs Girders to Chamber tops: Material O.H. STEEL Depth and thickness of girder at centre 10 1/2 x 15 1/2 x 2 Length as per rule 2'-10 7/16 Distance apart 8 7/8 Number and pitch of Stays in each 3 @ 8 1/4 in

Working pressure by rules 307 lbs Steam dome: description of joint to shell % of strength of joint

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

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type SCHMIDT Date of Approval of Plan SIMILAR TO ANDES & ALPS MARU Tested by Hydraulic Pressure to 690 lbs

Date of Test 29/6/25 & 8/6/25 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler YES

Diameter of Safety Valve 2 in Pressure to which each is adjusted 235 LBS Is Easing Gear fitted YES



The foregoing is a correct description, Manufacturer.

Dates of Survey work in shops while building During erection on board vessel

SEE MACHINERY REPORT

Is the approved plan of boiler forwarded herewith YES

Total No. of visits

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

This Boiler has been constructed under special survey in accordance with the Rules & approved plans. The material have been tested found efficient & the workmanship is good. The Boiler has been efficiently installed on board & tested under steam with satisfactory results. Copy of Superheater header certificate forwarded herewith.

Survey Fee £ When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

Committee's Minute FRI. 5 FEB 1926 Engineer Surveyor to Lloyd's Register of Shipping.

Assigned See other Rpt.

