

REPORT ON BOILERS.

No. 8514

14 SEP 1934

Received at London Office

Date of writing Report 20th Aug. 1934 When handed in at Local Office 8th Sep. 1934 Port of Bilbao

No. in Survey held at Vigo Date, First Survey 10th Apr. 1933 Last Survey 6th Aug. 1934

73320 on the Steel Liner S.S. "CAMPALANS" (Number of Visits 25) Gross 1054.25 Tons Net 494.84

Built at Vigo By whom built Hijos de J. Barreras S.A. Yard No. 820 When built 1934

Engines made at Vigo By whom made L. & M. S. Engine No. 117/118 When made 1934

Boilers made at Vigo By whom made L. & M. S. Boiler No. 1 When made 1934

Owners Cia Arrendataria del Municipio de Petroleros S.A. Port belonging to Barcelona

VERTICAL ~~DONKEY~~ MAIN BOILERS

Made at Vigo By whom made Hijos de J. Barreras S.A. Boiler No. 1 When made 1934 Where fixed engine room

Manufacturers of Steel Steel Co. of Scotland Ltd. & Cia. Siderurgica del Medio de Sagunto

Total Heating Surface of Boiler 850 sq. ft. Is forced draught fitted Yes Coal or Oil fired Oil

No. and Description of Boilers Two vertical multitubular dry backed type Working pressure 125 lbs. 0"

Tested by hydraulic pressure to 238 lbs. 0" Date of test 4th June 1934 No. of Certificate 128

Area of Firegrate in each Boiler 25 No. and Description of safety valves to each boiler 2 @ 2 1/2" direct spring loaded

Area of each set of valves per boiler per rule 9.2 sq. in. as fitted 11.88 Pressure to which they are adjusted 125 lbs. Are they fitted with easing gear Yes

State whether steam from main boilers can enter the donkey boiler Yes Smallest distance between boiler or uptake and bunkers

on woodwork 6 ft. Is oil fuel carried in the double bottom under boiler No Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Yes Largest internal dia. of boiler 7' 10 1/4" Height 18' 9"

Shell plates: Material S.M. steel Tensile strength 26/32 tons Thickness 21/32"

Are the shell plates welded or flanged No Description of riveting: circ. seams end Double inter. de long. seams Double lap.

Dia. of rivet holes in circ. seams 1 1/4" Pitch of rivets 3 3/4" Percentage of strength of circ. seams plate 66.7 rivets 69.8 of Longitudinal joint plate 68.3 rivets 72.5 combined

Working pressure of shell by rules 126.5 lbs. Thickness of butt straps outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished partial sphere Material S.M. steel

Tensile strength 26/30 tons Thickness 7/8" Radius 7' 0" Working pressure by rules 125.3 lbs

Description of Furnace: Plain, spherical, or dished crown Spherical Material S.M. steel Tensile strength 26/30 tons

Thickness { Crown 3/4" Sides 13/16" External diameter top bottom Length as per rule Working pressure by rules

Pitch of support stays circumferentially and vertically Are stays fitted with nuts or riveted over

Diameter of stays over thread Radius of spherical or dished furnace crown 3' 3" Working pressure by rule 162 lbs

Thickness of Ogee Ring 1 1/32" Diameter as per rule D 94.6875 a 82.75 Working pressure by rule 126.7 lbs

Combustion Chamber: Material Tensile strength Thickness of top plate

Radius if dished Working pressure by rule Thickness of back plate Diameter if circular

Length as per rule Pitch of stays Are stays fitted with nuts or riveted over

Diameter of stays over thread Working pressure of back plate by rules

Tube Plates: Material front S.M. steel back " " Tensile strength 26/30 tons Thickness 1 1/4" Mean pitch of stay tubes in nests { 11 1/4" Ring 12 3/4" rivets

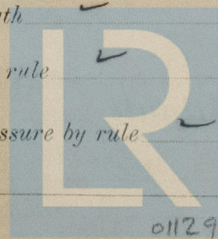
If comprising shell, Dia. as per rule front 87 1/2" back 87 1/2" Pitch in outer vertical rows 4 1/2" Dia. of tube holes FRONT stay 2 1/4" plain 2 9/16" BACK stay 2 1/2" plain 2 1/2"

Is each alternate tube in outer vertical rows a stay tube Yes Working pressure by rules front 125 lbs back 126.5 lbs

Girders to combustion chamber tops: Material Tensile strength

Depth and thickness of girder at centre Length as per rule

Distance apart No. and pitch of stays in each Working pressure by rule



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Crown stays: Material collied Tensile strength 48-8 Diameter at body of stay, or over threads 2 1/2"
No. of threads per inch 11 Area supported by each stay 10-01 Working pressure by rules 230 lb

Screw stays: Material collied Tensile strength 48-8 Diameter at turned off part, or over threads 2 1/2" No. of threads per inch 11
Area supported by each stay 10-01 Working pressure by rules 230 lb Are the stays drilled at the outer ends yes

Tubes: Material Weldless steel External diameter 2 1/2" Thickness 9 S.W.C.
No. of threads per inch 11 Pitch of tubes 4 1/4" x 3 1/4" Working pressure by rules 230 lb
(See Secy's letter E 11/7/33)

Manhole Compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 12" x 2 1/2" No. of rivets and diameter
of rivet holes 3/4" rivets 1 1/4" holes Outer row rivet pitch at ends 4 7/16" Depth of flange if manhole flanged yes

Uptake: External diameter yes Thickness of uptake plate yes

Cross Tubes: No. yes External diameters yes Thickness of plates yes

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes (see under)

The foregoing is a correct description

Hijos de J. Barreras, S. A.

UN DIRECTOR

Julio Barreras

Manufacturer

Dates of Survey while building: During progress of work in shops - 1933: Apr. 10, 11, 12; May 3, 4; June 6, 7; July 11, 12; Aug. 29; Oct. 19; Nov. 7
During erection on board vessel - 1934: Jan. 24, 25; Feb. 20; Apr. 4; June 4, 5; 26, 27; July 19; Aug. 2, 4, 6.
Is the approved plan of boiler forwarded herewith 22/10/32
(If not state date of approval.)
Total No. of visits 25

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

These Boilers have been constructed under survey, of tested materials, and in accordance with the approved plans and Secretary's letters. The workmanship is good and the boilers have been tested by hydraulic pressure and found tight and sound. These boilers have now been satisfactorily fitted in the above vessel, examined under steam and their safety valves adjusted to 125 lbs. 0" and in my opinion to be classed with the notation Boiler pressure 125 lbs.

N.B.: Some priming occurred on trials and the Builders fitted extra water gauges to the Boilers, but not having suitable terminal cocks for bolting to the side as required by Rules, I secured valves from fitted as a provisional measure and require to be replaced. Stated will be done at Barcelona. Surveyor advised as per attached copy of letter.

Survey Fee £ 19 When applied for, yes
Travelling Expenses (if any) £ 19 When received, yes

Committee's Minute

Assigned

TUE 18 SEP 1934

WED. 8 MAY 1935

TUE. 17 DEC 1935

Engineer Surveyor to Lloyd's Register of Shipping.



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