

REPORT ON BOILERS.

No. 18656

29 APR 1929

Received at London Office

ing Report 16th APRIL 1929 When handed in at Local Office

19 Port of HAMBURG.

Survey held at KIEL. Date, First Survey 3rd July 1928. Last Survey 4th APRIL 1929

on the Steel Twin Sc. M.V. "CALIFORNIA STANDARD" (Number of Visits) Gross 11445 Tons Net

made at KIEL. By whom built FRIED. KRUPP-GERMANIAWERFT AG Yard No. 494 When built 1929

made at KIEL. By whom made FRIED. KRUPP-GERMANIAWERFT AG Engine No. 2227 When made 1929

made at KIEL. By whom made FRIED. KRUPP-GERMANIAWERFT AG Boiler No. 3748/49 When made 1929

STANDARD OIL CO. of CALIFORNIA Port belonging to S. FRANCISCO.

ICAL DONKEY BOILER.

Kiel. By whom made Fried. Krupp-Germania-werft. Boiler No. 3748/49 When made 1929 Where fixed Donkey boiler space in gas exhaust line

urers of Steel Messrs. Henschel & Sohn G. m. b. H. - Hallingum.

ating Surface of Boiler 2 x (52) sqm. Is forced draught fitted Coal or Oil fired or gas fired.

Description of Boilers Two vertical exhaust gas fired Donkey boilers Working pressure 14 kg (100 lbs)

hydraulic pressure to 14 kg (200 lbs) Date of test 20. 8. 28. No. of Certificate 469 - 470

Firegrate in each Boiler No. and Description of safety valves to each boiler 2 spring loaded.

each set of valves per boiler { per rule 3965 $\frac{1}{2}$ as fitted 5654 $\frac{1}{2}$ Pressure to which they are adjusted 7 kg (100 lbs) Are they fitted with easing gear yes

ether steam from main boilers can enter the donkey boiler no - non return valve fitted Smallest distance between boiler or uptake and bunkers

ork Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated yes Largest internal dia. of boiler 1550 mm. Height 2600 mm.

ates: Material Steel Tensile strength 44-50 kg Thickness 12 mm.

shell plates welded or flanged flanged Description of riveting: circ. seams { end 1/2 single inter. long. seams 1/2 double

rivet holes in { circ. seams 26 mm Pitch of rivets { 67 mm Percentage of strength of circ. seams { plate 61.2 rivets 54.2 of Longitudinal joint { plate 68.2 rivets 78.8 combined 75.5

g pressure of shell by rules 9.74 kg/cm² Thickness of butt straps { outer inner

rown: Whether complete hemisphere, dished partial spherical, or flat flat - top Tube plate Material Steel.

strength 34-41 kg Thickness 24 mm Radius flat Working pressure by rules

tion of Furnace: Plain, spherical, or dished crown Material Tensile strength

ss External diameter { top Length as per rule Working pressure by rules

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

er of stays over thread Radius of spherical or dished furnace crown Working pressure by rule

ss of Ogee Ring Diameter as per rule { D Working pressure by rule

tion Chamber: Material Tensile strength Thickness of top plate

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

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

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

Plates: Material { Top Steel Tensile strength 41-47 kg Thickness 24 mm Mean pitch of stay tubes in nests 250 x 360 mm.

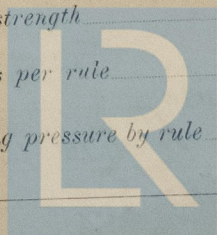
prising shell, Dia. as per rule { front Pitch in outer vertical rows Dia. of tube holes FRONT { stay 47.82 plain 48 BACK { stay 51.99 plain 49

h alternate tube in outer vertical rows a stay tube no Working pressure by rules { front back

s to combustion chamber tops: Material Tensile strength

and thickness of girder at centre Length as per rule

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



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Crown stays: Material _____ Tensile strength _____ Diameter ^{at body of stay,} _{or} ^{over threads} _____

No. of threads per inch _____ Area supported by each stay _____ Working pressure by rules _____

Screw stays: Material _____ Tensile strength _____ Diameter ^{at turned off part,} _{or} ^{over threads} _____ No. of threads per inch _____

Area supported by each stay _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____

Tubes: Material Handwrought Steel External diameter 48 in. Thickness 3 in.

No. of threads per inch 9 Pitch of tubes 80 in. Working pressure by rules 8.8 kg. - 6.5 kg.

Manhole Compensation: Size of opening in shell plate 280 x 380 in. Section of compensating ring 80 x 24 in. No. of rivets and diameter _____

of rivet holes 16 - 26 in. Outer row rivet pitch at ends 80 in. Depth of flange if manhole flanged _____

Uptake: External diameter _____ Thickness of uptake plate _____

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

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with yes

The foregoing is a correct description.

FRIED. KRUPP
GERMANIAWERFT
 Aktiengesellschaft

Manufacturer.

Dates of Survey During progress of 3/7-6/7-2/8-6/8-17/8-20/8/28.

while building During erection on 13/3-22/3-3/4-4/4/29

Is the approved plan of boiler forwarded herewith yesTotal No. of visits 10.**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)

Material and workmanship of these exhaust fired Donkey Grinders are of good quality. The materials used in the construction are made at works recognized by the Committee and tested by the Surveyor to the Society.

These Donkey Grinders having been made under Special Survey in conformity with the approved plan, the Secretary's letter, and otherwise in accordance with the requirements of the Rules are eligible in my opinion to be classed in the Society's Register Book with second D.B. pressure 100 lbs.

MARK on D. BOILERS

N^o 469-470

LLOYD'S TEST.

200 lbs.

W.P. 100 lbs.

F.W. 10. 2. 18.

Steel Truss S.O.N.S. CALIFORNIA STANDARD.**DESCRIPTION OF PUMPS.**

Description.	Type.	N ^o .	Diam. of Steam Cyl.	Diam. of Water Cyl.	Stroke.	Capacity.
Pargo Oil Pump.	Steam driven log. D.F. horizontal.	3	460 in.	380 in.	610 in.	480 dm. p.m.
Edge Sp. Main Pump room.	Steam driven duplex horizontal.	1	220 in.	216 in.	150 in.	45 . .
" Forward Pump room.	"	1	"	"	"	" . .
1/2 fuel Transp. in Forw. Sp.	"	1	"	"	"	" . .
1/2 fuel Transp. for D. Grills.	"	2	80 in.	80 in.	80 in.	3 . .
Edge Pump.	electric driven duplex. D.F.	2	"	170 in.	230 in.	80 . .
Cooling water Pump.	electric driven centrifugal.	2	"	"	"	30 . .
Fire Pump.	"	1	"	"	"	115 . .
Fresh water Pump.	"	1	"	"	"	34 . .
W.C. Pump.	"	1	"	"	"	34 . .
Low Lubric. Oil Pump.	electric driven rotary type	1	"	"	"	30 . .
Oil fuel Transfer Pump.	"	2	"	"	"	30 . .
Lubric. Oil Pump.	coupled to Cooling water Pump. - rotary type	2	"	"	"	30 . .
Fed Pump - Donkey Grills.	steam driven simplex	2	200 in.	140 in.	375 in.	20 . .
" " 2 nd Donk. Grills.	"	1	90 in.	50 in.	175 in.	1.5 . .
Hot Pump - Condenser.	Steam driven.	"	"	"	"	150 . .

Friedrich Gilt

Survey Fee

See Machinery Report

When applied for. 19

Travelling Expenses (if any) £

When received. 19

Friedrich Gilt

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 3 MAY 1929

Committee's Minute

Assigned

2 & 100 lb (See 4 Exp. attached)



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