5c.

REPORT ON WATER TUBE BOILERS. No. 7314

of writing Report 9.3. 1959 When handed in at Local Office ____ 19__ Received at London Office 23 MAR 1959

. in Survey held at Hamburg Port of Hamburg

. Book.

118 on the "TINA ONASSIS" (Number of Visits ____) Tons Gross 27853 Net 16785

t at Hamburg By whom built Howaldtswerke AG. Yard No. 885 When built 1953

ines made at Hamburg By whom made Howaldtswerke AG Engine No. 350 111 When made 1953

ers made at Hamburg By whom made Howaldtswerke AG Boiler No. 1686/87 When made 1953

for Register Book 24 114 sq.ft Owners Palmas Transportation Co. Port belonging to Monrovia

ATER TUBE BOILERS—MAIN, ~~AUXILIARY, DONKEY~~ Manufacturers of Steel Mannesmann Röhrenwerke AG., Mühlheim

s of Approval of plan 5.3.59

Boilers 2 - Two Drum Water Tube Boilers Working Pressure 48kg/cm² Tested by Hydraulic Pressure to (72kg/cm², stated by ABS) No. and Description or Type of Certificate ~~xxxxxxxx~~

Can each boiler be worked separately yes Total Heating Surface of Boilers 2x9537 sq.ft Superheaters 2x2520 sq.ft

f Economisers none Is forced draught fitted yes Area of Fire Grate (coal) in each Boiler oil fired

and type of burners (oil) in each boiler 5 burners, Todd VC type

No. and description of safety valves on boiler Two, Single, Spring Loaded, Full Lift Area of each set of valves per boiler { per rule 2670 mm² 2954 / as fitted 3300 mm² } Pressure to which they

adjusted 680 lbs Are they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter donkey boiler none Smallest distance between boilers or uptakes and bunkers or woodwork well clear Height of boiler 12877 mm

dth and length 4128 x 5268 mm **Steam Drums:**—Number in each boiler one Inside diameter 1300 mm

ckness of plates 31 and in way of tubes 62 mm Range of tensile strength 52-62 kg/mm² Are drum shell plates welded

langed long.welded If fusion welded, state name of welding firm Rheinische Röhrenwerke AG.Mühlheim Have all the requirements of the Rules

Class I vessels been complied with see ABS certificate Description of riveting:—Circ. seams welded long. seams welded

meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of

. joint:—Plate - Rivet - Diameter of tube holes in drum 44.5x57mm Pitch of tube holes see boiler plan

centage strength of shell in way of tubes - **Steam Drum Heads or Ends:**—Range of tensile strength 52-62 kg/mm²

ckness of plates 50 mm Radius or how stayed 1120 mm Size of manhole or handhole 425 x 320 mm **Water Drums:**—Number

ach boiler one Inside diameter 1022 mm Thickness of plates 49 mm Range of tensile strength 52-62 kg/mm² Are drum shell plates

led or flanged long. welded If fusion welded, state name of welding firm Rheinische Röhrenwerke AG Have all the requirements of the Rules

Class I vessels been complied with see ABS certificate Description of riveting:—Circ. seams welded long. seams welded

meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps -

centage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum 44.5x57 mm Pitch of tube holes see blr.plan

centage strength of drum shell in way of tubes - **Water Drum Heads or Ends:**—Range of tensile strength 52-62 kg/mm²

ckness of plates 39 mm Radius or how stayed 880 mm Size of manhole or handhole 425x320 mm

ders or Sections:—Number 6 Material SM-Steel Thickness 24 + 28 mm Tested by hydraulic pressure to (84 kg/cm², stated by ABS)

es:—Diameter see back of Rpt. Thickness 3.5-6 mm Number 1204 **Steam Dome or Collector:**—Description of

t to shell none Inside diameter - Thickness of shell plates - Range of tensile

ngth - 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 -

h of rivets - Thickness of straps - Percentage strength of long. joint - plate - rivet -

wn or End Plates:—Range of tensile strength - Thickness - Radius or how stayed -

PERHEATER, ~~Drums or~~ Headers:—Number in each boiler two square headers Inside diameter 178 x 178 mm

kness 20 mm Material SM Steel Range of tensile strength 45 - 50 kg/mm² Are drum shell plates welded

nged forged headers If fusion welded, state name of welding firm - Have all the requirements of the Rules

Class I vessels been complied with - Description of riveting:—Circ. seams - long. seams -

meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of

. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of

shell in way of tubes - **Drum Heads or Ends:**— - Thickness - Range of tensile strength -

us or how stayed - Size of manhole or handhole - Number, diameter, and thickness of tubes -

d by hydraulic pressure to 84 kg/cm² Date of test see ABS certificates Is a safety valve fitted to each section of the superheater which

be shut off from the boiler yes No. and description of safety valves One, Single, Spring Loaded, Full Lift Area of each set

lves 620 mm² Pressure to which they are adjusted 650 lbs Is easing gear fitted yes

re Gear. Has the spare gear required by the Rules been supplied yes

S.T. 842°F.

The foregoing is a correct description,

Manufacturer.

Dates of Survey During progress of work in shops - - - see Rpt.9 Is the approved plan of boiler forwarded herewith yes

During erection on board vessel - - - Total No. of visits -

Is boiler a duplicate of a previous case no If so, state vessel's name and report No. -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. These Boilers have been built under the Survey of ABS. The boilers have now been examined, opened up, the main scantlings checked with the Makers' plans and materials identified with the ABS certificates, so far as practicable, The boilers have been examined under working conditions, accumulation tests carried out and all found in good order

Survey Fee ... ... £ } see Rpt. 9. No. 7313 When applied for ____ 19__

Travelling Expenses (if any) £ } When received ____ 19__

FRIDAY 10 APR 1959

Date

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's minute See Rpt. 1

8.4.59

9/2018

List of Boiler Tubes

Tubes	No. of	External Dia in mm	Thickness in mm
Downcomers	560	44.5	3.5
Downcomers	215	57	4.-
Supporting	110	44.5	5.-
Risers	125	44.5	3.5
Water Wall	96	44.5	3.5
Water Wall	62	44.5	3.5
Circulation	12	76	6.-
Bottom	12	76	5.-
Circulation	12	76	5.-
Total:	1204		

LR-FAF-TB17-78

Rpt. 13.

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Date of writing Re

No. in Surv
eg. Book.

82418 *on t*

Built at Hs

Owners Pa

Installation fit

Is vessel equipp

Plans, have they
Cooking
Heating 22

Prime Movers,

with a trip swit

Are the generat

Have machines

under 100 kw.

Platform De

is the ventilatio

damage from u

above platf

are they in acc

steam and oil

material is it ar

per Rule

for each generat

thermal, th

Triple pole

and the switch a

or triple p

as group "b

Are compartmen

ammeters 2

protection devic

voltmeters

Switches, Circu

make of fuses

overload set

devices operate

if otherwise tha

under maximu

Are all the ca

damage yes

type of cables

and laundries

frameworks

Are all lead sh

bulkheads prov

effectively bush

Have refrigera

Are the motors