t. 5c.

This copy to go with

LOW PRESSURE STEAM GENERATOR.

REPORT ON WATER TUBE BOILERS.

No. 52976.

29 JUN 1954
Received at London Office

of writing Report Jan 7th 1954 When handed in at Local Office 19 Port of NEW YORK.

in Survey held at Date, First Survey 27th.Oct.53 Last Survey 24th Nov; 1953

Bk. (Number of Visits cont) Tons Gross / Net

on the 4522.

at By whom built Bethlehem Steel Co When built

es made at Quincy, Mass;. By whom made Bethlehem Steel Co; When made 1953

s made at By whom made When made

nal Horse Power 3,000 Owners Port belonging to

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel Co;.

of Approval of plan February 29th.1952 **Number and Description or Type**

oilers xxxx Low Press; Steam Generator ✓ **Working Pressure** 125 lbs ✓ Tested by Hydraulic Pressure to 300 lbs Date of Test 11/24/53

of Certificate -- Can each boiler be worked separately one only **Total Heating Surface of Boilers** 355 sq;ft;

rced draught fitted **Area of fire grate (coal) in each Boiler** xxx L.P.Steam Generator, unfired. ✓

nd type of burners (oil) in each boiler --- No. and description of safety valves on

boiler Two - four inch angle relief valves ✓ Area of each set of valves per boiler {per rule / as fitted 25.12 sq;ins; Pressure to which they

djusted Are they fitted with easing gear Yes. ✓ In case of donkey boilers state whether steam from main boilers can enter

onkey boiler Smallest distance between boilers or uptakes and bunkers or woodwork Height of boiler

h and Length 6'-9" & 11'-9½" **Steam Drums:**—Number in each boiler one ✓ Inside diameter 4'-5" ✓

kness of plates ½" ✓ Range of Tensile Strength 55,000 to 65,000 lbs. Are drum shell plates welded

anged welded ✓ If fusion welded, state name of welding firm Bethlehem Steel Co. Have all the requirements of the rules

Class I vessels been complied with Yes. Description of riveting:—Cir. seams long. seams

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

joint:—Plate 90% Rivet Diameter of tube holes in drum Pitch of tube holes

ntage strength of shell in way of tubes **Steam Drum Heads or Ends:**—Range of tensile strength

kness of plates front hd.3/8" back hd.½" Radius or how stayed 48" radius. Size of manhole or handhole 16" x 12" **Water Drums:**—Number

ch boiler Inside Diameter Thickness of plates Range of tensile strength Are drum shell plates

d or flanged If fusion welded, state name of welding firm Have all the requirements of the rules

Class I vessels been complied with Description of riveting:—Cir. seams long. seam

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

ntage strength of long. joint:—Plate Rivet Diameter of tube holes in drum Pitch of tube holes

ntage strength of drum shell in way of tubes **Water Drum Heads or Ends:**—Range of Tensile strength

kness of plates Radius or how stayed Size of manhole or handhole

ders or Sections:—Number Material Thickness Tested by Hydraulic Pressure to

es:—Diameter 1" outside dia. ✓ Thickness .072" ✓ Number 147. **Steam Dome or Collector:**—Description of

to Shell outside tube plate inside tube plate Inside diameter 3'-2 7/8" 2'-5 9/16" Thickness of shell plates O.S.tubeplate 2 1/8" I.S.tubeplate 2" ✓ Range of tensile

gth 55,000 lbs to 65,000 lbs Description of longitudinal joint If fusion welded, state name of welding

Have all the requirements of the rules for Class I vessels been complied with Diameter of rivet holes

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 Inside Diameter

kness Material Range of tensile strength Are drum shell plates welded

anged If fusion welded, state name of welding firm Have all the requirements of the rules

Class I vessels been complied with Description of riveting:—Cir. 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

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

d by Hydraulic Pressure to Date of Test Is a safety valve fitted to each section of the superheater which

e shut off from the boiler No. and description of Safety Valves Area of each set

lves Pressure to which they are adjusted Is easing gear fitted

re Gear. Has the spare gear required by the rules been supplied

gd
5/7/54

The foregoing is a correct description,

[signature] Manufacturer.

tes / rvey / ile / ding } During progress of work in shops - - } continuous during Oct 27th to Nov 24th Is the approved plan of boiler forwarded herewith
During erection on board vessel - - - Total No. of visits

s boiler a duplicate of a previous case Yes If so, state vessel's name and report No. s/s "Chryssi" N.Yk.52229.

NERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This L.P.Steam Generator is a horizontal two s shell & tube unit with submerged tube heating surface, shell, heads, tube plates & baffles of el, tubes of copper nickel, tube nest heads cast steel. Unit built under special survey in accordance approved plans, workmanship & materials good. Examined under hydraulic test in shop, satisfactory.

Survey Fee .... £ : : } When applied for, 19
Travelling Expenses (if any) £ : : } When received, 19

W. S. Holmes
Engineer Surveyor to Lloyd's Register of Shipping.

mmittee's Minute NEW YORK JUN 9 1954 [initials]

igned See minute on first entry Report attached

008201-008210-0164