pt. 5c.

REPORT ON WATER TUBE BOILERS. No. 104096

ate of writing Report ... 19 ... When handed in at Local Office 27 NOV 1946 19 ... Received at London Office - 3 DEC 1946 Port of NEWCASTLE-ON-TYNE.

No. in eg. Book. Survey held at Newcastle on Tyne Date, First Survey 12TH JUNE 1944 Last Survey 26TH OCTOBER 1946 (Number of Visits 154)

4931 on the TURBO-ELEC S.S. HELICINA Tons Gross 12167-16 Net 7231-73

uilt at Wallsend on Tyne By whom built Swan Hunter & Wigham Richardson Ltd Yard No. 1711 When built 1946

ngines made at Rugby By whom made B.T.H. Co. Ltd Engine No. PORT R 25267 STARBD R 25268 When made 1946

oilers made at Neptune Wks-Walker By whom made Swan Hunter & Wigham Richardson Ltd Boiler No. 1908 When made 1946

ominal Horse Power ... Owners Anglo Saxon Petroleum Co Ltd Port belonging to London

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—*Manufacturers of Steel* ✓

ate of Approval of plan See Glasgow Report No 70225 **No. and Description of Type of Boilers** 3 B.W. Marine Type

o. of Certificate F-1185 S-1186 P-1184 *Working Pressure* 450 lbs "

Tested by Hydraulic Pressure to 725 lbs " *Date of Test* F-15-11-45 S-20-11-45 P-14-12-45 F-4-7-46 P-5-7-46 S-9-7-46

Can each boiler be worked separately Yes *Total Heating Surface of Boilers* 18,618 sq ft

forced draught fitted Yes ✓ *Area of Fire Grate (coal) in each Boiler* ✓

o. and type of burners (oil) in each boiler 5 - Smiths ✓

No. and description of safety valves on ch boiler 2 - Spring Loaded Lockburns Improved H.L. *Area of each set of valves per boiler* 3" *per rule* Approved *as fitted* 14-12 sq " ✓ *Pressure to which they* e adjusted 450 lbs " ✓ *Are they fitted with easing gear* Yes ✓

In case of donkey boilers state whether steam from main boilers can enter donkey boiler ✓ *Smallest distance between boilers or uptakes and bunkers or woodwork* 3'-0" *Height of boiler* ✓

idth and length ✓ **Steam Drums:**—*Number in each boiler* ✓ *Inside diameter* ✓

hickness of plates ✓ *Range of tensile strength* ✓ *Are drum shell plates welded*

flanged ✓ *If fusion welded, state name of welding firm* ✓ *Have all the requirements of the Rules*

r Class I vessels been complied with ✓ *Description of riveting:—Circ. seams* ✓ *long. seams* ✓

iameter of rivet holes in long. seams ✓ *Pitch of rivets* ✓ *Thickness of straps* ✓ *Percentage strength of*

ng. joint:—Plate ✓ *Rivet* ✓ *Diameter of tube holes in drum* ✓ *Pitch of tube holes* ✓

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

hickness of plates ✓ *Radius or how stayed* ✓ *Size of manhole or handhole* ✓ **Water Drums:**—*Number*

each boiler ✓ *Inside diameter* ✓ *Thickness of plates* ✓ *Range of tensile strength* ✓ *Are drum shell plates*

lded or flanged ✓ *If fusion welded, state name of welding firm* ✓ *Have all the requirements of the Rules*

r Class I vessels been complied with ✓ *Description of riveting:—Circ. seams* ✓ *long. seams* ✓

iameter of rivet holes in long. seams ✓ *Pitch of rivets* ✓ *Thickness of straps* ✓

rcentage strength of long. joint:—Plate ✓ *Rivet* ✓ *Diameter of tube holes in drum* ✓ *Pitch of tube holes* ✓

rcentage strength of drum shell in way of tubes ✓ **Water Drum Heads or Ends:**—*Range of tensile strength* ✓

hickness of plates ✓ *Radius or how stayed* ✓ *Size of manhole or handhole* ✓

eaders or Sections:—*Number* ✓ *Material* ✓ *Thickness* ✓ *Tested by hydraulic pressure to* 725 lbs " ✓

ubes:—*Diameter* ✓ *Thickness* ✓ *Number* ✓ **Steam Dome or Collector:**—*Description of*

nt to shell ✓ *Inside diameter* ✓ *Thickness of shell plates* ✓ *Range of tensile*

ength ✓ *Description of longitudinal joint* ✓ *If fusion welded, state name of welding*

m ✓ *Have all the requirements for the Rules for Class I vessels been complied with* ✓ *Diameter of rivet holes* ✓

ch of rivets ✓ *Thickness of straps* ✓ *Percentage strength of long. joint* ✓ *plate* ✓ *rivet* ✓

own or End Plates:—*Range of tensile strength* ✓ *Thickness* ✓ *Radius or how stayed* ✓

PERHEATER. Drums or Headers:—*Number in each boiler* ✓ *Inside diameter* ✓

ickness ✓ *Material* ✓ *Range of tensile strength* ✓ *Are drum shell plates welded*

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:—Circ. seams* ✓ *long. seams* ✓

ameter of rivet holes in long. seams ✓ *Pitch of rivets* ✓ *Thickness of straps* ✓ *Percentage strength of*

g. joint:—Plate ✓ *Rivet* ✓ *Diameter of tube holes in drum* ✓ *Pitch of tube holes* ✓ *Percentage strength of*

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

ius or how stayed ✓ *Size of manhole or handhole* ✓ *Number, diameter, and thickness of tubes* ✓

ted by hydraulic pressure to 725 lbs " ✓ *Date of test* See above ✓ *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* 1 - Spring loaded Lockburns Improved H.L. ✓ *Area of each set*

alves 7.06 sq " ✓ *Pressure to which they are adjusted* 3" 440 lbs " ✓ *Is easing gear fitted* Yes ✓

are Gear. *Has the spare gear required by the Rules been supplied* Yes ✓

The foregoing is a correct description,

"or" SWAN, HUNTER & WIGHAM RICHARDSON LTD.

P. L. Lang *Manufacturer.*

ates / urvey / hile / lding — *During progress of work in shops* - - / *During erection on board vessel* - - - SEE MACHINERY REPORT.

Is the approved plan of boiler forwarded herewith. ✓

Total No. of visits ———

his boiler a duplicate of a previous case Yes *If so, state vessel's name and report No.* OLNA. 102881

NERAL REMARKS (*State quality of workmanship, opinions as to class, &c.* These boilers have been erected by Swan-Hunter & Wigham Richardson Ltds after completion tested by hydraulic pressure to 725 lbs sq". They have been efficiently installed & fixed in vessel, tested in place by hydraulic pressure to 725 lbs sq, examined under steam & their safety valves adjusted to the approved pressures.

Survey Fee ... ... £ :

Travelling Expenses (if any) £ See Glasgow Rep't :

When applied for ... 19 ...

When received ... 19 ...

FRI 20 DEC 1946

Date

mittee's inute See F.E. machy. rpt.

J. B. Matthews

Engineer Surveyor to Lloyd's Register of Shipping.

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