pt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 59970

Received at London Office JUL -6 1938

e of writing Report ..... 19 ..... When handed in at Local Office 5 : 7 : 1938 Port of Glasgow

No. in Reg. Bk. 1958 — Survey held at Glasgow. — Date, First Survey ✓ — Last Survey 2nd July 1938 — Number of Visits ✓ — on the Twn. Sc. "RAFAELA" — See Gls. Report No 59554 — Tons Gross 3176·8 Net 1557·7

aster ..... Built at Glasgow. By whom built Blythswood S.B. Co Ltd When built 1938

ngines made at Clydebank. By whom made Aitchison & Blair Ltd. When made 1938

oilers made at Renfrew. By whom made Babcock & Wilcox Ltd. When made 1938

egistered Horse Power ✓ Owners Curaçaosche Sch. Maats. N.V. Port belonging to Curaçao.

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

etter for Record ..... *Date of Approval of plan* ..... **Number and Description or Type**

Boilers ..... *Working Pressure* ..... *Tested by Hydraulic Pressure to* ..... *Date of Test*

o. of Certificate ..... *Can each boiler be worked separately* ..... **Total Heating Surface of Boilers**

forced draught fitted ..... **Area of fire grate (coal) in each Boiler** ..... *Total grate area of boilers in vessel including*

ain and Auxiliary ..... *No. and type of burners (oil) in each boiler* 4 - "Smiths Patent" (Forced draught) *No and description of safety valves on*

ch boiler Two - Improved Highlift - Cockburns Ltd *Area of each valve* 5·94 □". *Pressure to which they are adjusted* 180 lbs/□"

re they fitted with easing gear yes *In case of donkey boilers state whether steam from main boilers can enter the donkey boiler* No Dky. Boiler

mallest distance between boilers ~~or uptakes~~ *and bunkers* ~~or woodwork~~ 4'-0" *Height of Boiler* ..... *Width and Length* .....

team Drums:—*Number in each boiler* ..... *Inside diameter* ..... *Material of plates* ..... *Thickness* .....

ange of Tensile Strength ..... *Are drum shell plates welded or flanged* ..... *Description of riveting:—*

ir. seams ..... *long. seams* ..... *Diameter of rivet holes in long. seams* ..... *Pitch of Rivets* .....

ap of plate or width of butt straps ..... *Thickness of straps* ..... *Percentage strength of long. joint:—Plate* ..... *Rivet* .....

iameter of tube holes in drum ..... *Pitch of tube holes* ..... *Percentage strength of shell in way of tubes* .....

f Drum has a flat side state method of staying ..... *Depth and thickness of girders at centre*

f fitted) ..... *Distance apart* ..... *Number and pitch of stays in each* ..... *Working pressure*

y rules ..... **Steam Drum Heads or Ends:**—*Material* ..... *Thickness* ..... *Radius or how stayed* .....

ize of Manhole or Handhole ..... **Water Drums:**—*Number in each boiler* ..... *Inside Diameter* .....

aterial of plates ..... *Thickness* ..... *Range of tensile strength* ..... *Are drum shell plates welded*

r flanged ..... *Description of riveting:—Cir. seams* ..... *long. seams* ..... *Diameter of Rivet Holes in*

ng. seams ..... *Pitch of rivets* ..... *Lap of plates or width of butt straps* ..... *Thickness of straps* .....

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

ercentage strength of drum shell in way of tubes ..... **Water Drum Heads or Ends:—Material** ..... *Thickness* .....

adius or how stayed ..... *Size of manhole or handhole* ..... **Headers or Sections:**—*Number* .....

aterial ..... *Thickness* ..... *Tested by Hydraulic Pressure to* ..... *Material of Stays* .....

rea at smallest part ..... *Area supported by each stay* ..... *Working Pressure by Rules* ..... **Tubes:**—*Diameter* .....

hickness ..... *Number* ..... **Steam Dome or Collector:**—*Description of Joint to Shell* .....

ercentage strength of Joint ..... *Diameter* ..... *Thickness of shell plates* ..... *Material* .....

escription of longitudinal joint ..... *Diameter of Rivet Holes* ..... *Pitch of Rivets* ..... *Working Pressure of shell*

y Rules ..... **Crown or End Plates:**—*Material* ..... *Thickness* ..... *How stayed* .....

PERHEATER. *Type* ..... *Date of Approval of Plan* ..... *Tested by Hydraulic Pressure to* .....

ate of Test ..... *Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler* .....

iameter of Safety Valve ..... *Pressure to which each is adjusted* ..... *Is easing gear fitted* .....

s a drain cock or valve fitted at lowest point of superheater ..... *Number, diameter, and thickness of tubes* .....

Spare Gear. *Tubes* ..... *Gaskets or joints:—Manhole* ..... *Handhole* ..... *Handhole plates* .....

The foregoing is a correct description,

..... *Manufacturer.*

Dates of Survey while building { *During progress of work in shops* - - / *During erection on board vessel* - - - } ..... *Is the approved plan of boiler forwarded herewith* .....

SEE ACCOMPANYING MACHINERY REPORT. ..... *Total No. of visits* .....

GENERAL REMARKS (*State quality of workmanship, opinions as to class, &c.*) These boilers have been efficiently secured on board the Twn. Sc. "RAFAELA". The Safety Valves have been adjusted under steam and tested for accumulation of pressure, and the boilers tried under working conditions and found satisfactory.

Survey Fee ... ... £ : / : } When applied for, ... 19 .....

Travelling Expenses (if any) £ : : } When received, ... 19 .....

H W Campbell

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 5 = JUL 1938 ..... *Assigned* SEE ACCOMPANYING MACHINERY REPORT.

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