

REPORT ON WATER TUBE BOILERS.

No. 105281

Received at London Office 22 MAY 1948

Date of writing Report 19 When handed in at Local Office 11 MAY 1948 Port of Newcastle-on-Tyne
 No. in Survey held at Blyth Date, First Survey 25th March 48 Last Survey 13th April 1948
 Reg. Bk. 35711 on the steel sc. steamer "WATSON FERRIS" (Number of Visits 10) Tons { Gross 1791
 Net 1041
 Built at Superior, Wisconsin U.S.A. By whom built Walter Butler Shipbuilders Inc. When built 1943
 Engines made at Menominee, Mich. By whom made Prescott Company When made 1943
 Boilers made at Saginaw, U.S.A. By whom made Wicks Boilers Co When made 1943
 Nominal Horse Power 330 Owners Ministry of Transport Port belonging to London

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

Date of Approval of plan _____ Number and Description or Type of Boilers Two, Water tube, 3 drums, (Wicks) Design Working Pressure 250 lbs/sq. in. Tested by Hydraulic Pressure to _____ Date of Test _____
 No. of Certificate _____ Can each boiler be worked separately yes Total Heating Surface of Boilers 4800 sq. ft.
 Is forced draught fitted yes - Induced Area of fire grate (coal) in each Boiler 56 sq. ft.
 No. and type of burners (oil) in each boiler _____ No. and description of safety valves on each boiler Spring loaded, 2 on drum, 1 on superheater Area of each set of valve 5.52 sq. in. + 1.23 sq. in. Pressure to which they are adjusted Superheater 245 lbs/sq. in. Drum 225 lbs/sq. in.
 Are they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler _____
 Smallest distance between boilers or uptakes and bunkers or woodwork app. 10" Height of boiler _____ Width and Length _____
 Steam Drums:—Number in each boiler one Inside diameter 3-9 1/2" Thickness of plates 15/16"
 Range of Tensile Strength _____ Are drum shell plates welded or flanged welded Description of riveting:—
 Cir. seams _____ long. seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____
 Lap of plate or width of butt straps _____ Thickness of straps _____ Percentage strength of long. joint:—Plate _____ Rivet _____
 Diameter of tube holes in drum 2 1/2" x 1 1/2" Pitch of tube holes 4 1/2" x 2 1/2" Percentage strength of shell in way of tubes 40%
 Working pressure by rules _____ Steam Drum Heads or Ends:—Range of tensile strength _____ Thickness of plates 1 1/8"
 Radius or how stayed Radius 46" Size of manhole or handhole 16" x 12" Working pressure by rules _____ Water Drums:—Number in each boiler two Inside Diameter 2'-3" Thickness of plates 9/16" Range of tensile strength _____ Are drum shell plates welded or flanged welded Description of riveting:—Cir. seams _____ long. seam _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____ Thickness of straps _____
 Percentage strength of long. joint:—Plate _____ Rivet _____ Diameter of tube holes in drum 2 1/2" x 1 1/2" Pitch of tube holes 4 1/2" x 2 1/2"
 Percentage strength of drum shell in way of tubes 40% Working pressure by rules _____ Water Drum Heads or Ends:—Range of Tensile strength _____ Thickness of plates 1 1/8" Radius or how stayed 27" Rad.
 Size of manhole or handhole 16" x 12" Working pressure by rules _____ Headers or Sections:—Number _____ Tubes:—Diameter 2 1/2 x 1 1/2" O.D.
 Material _____ Thickness _____ Tested by Hydraulic Pressure to _____ Steam Dome or Collector:—Description of Joint to Shell _____
 Thickness 2 1/2" = .120", 1 1/2" = .095 Number _____ Range of tensile strength _____
 Inside diameter _____ Thickness of shell plates _____ Diameter of rivet holes _____ Pitch of rivets _____ Lap of plate or width of butt straps _____
 Description of longitudinal joint _____ Working Pressure of shell by rules _____ Crown or End Plates:—Range of tensile strength _____ Thickness _____ Radius or how stayed _____ Working pressure by rules _____
 SUPERHEATER. Drums or Headers:—Number in each boiler 2 Inside Diameter 6 1/2"
 Thickness 3/4" Material _____ Range of tensile strength _____ Are drum shell plates welded or flanged _____ Description of riveting:—Cir. seams _____ long. seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____ Thickness of straps _____
 Percentage strength of long. joint:—Plate _____ Rivet _____ Diameter of tube holes in drum 1 1/2" Pitch of tube holes _____
 Percentage strength of drum shell in way of tubes _____ Working pressure by rules _____ Drum Heads or Ends:—Thickness _____ Range of tensile strength _____ Radius or how stayed _____ Size of manhole or handhole Plug
 Working pressure by rules _____ Number, diameter, and thickness of tubes 1 1/2" x .15 Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a safety valve fitted to each section of the superheater which can be shut off from the boiler _____
 No. and description of Safety Valves see above. (Supt can not be shut off) Area of each set of valves _____
 Pressure to which they are adjusted _____ Is easing gear fitted _____
 Spare Gear. Has the spare gear required by the rules been supplied yes.

The foregoing is a correct description, _____ Manufacturer.

Dates of Survey while building { During progress of work in shops - - } Is the approved plan of boiler forwarded herewith _____
 { During erection on board vessel - - } PLEASE SEE REPORT L Total No. of visits 10

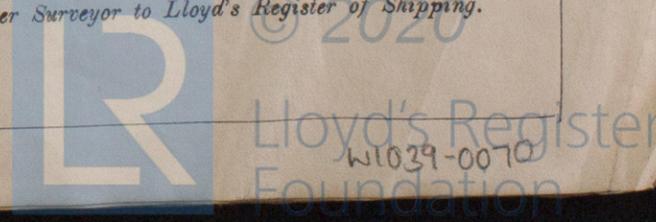
Is this boiler a duplicate of a previous case yes. If so, state vessel's name and report No. Fauna Hatch. No. 105222.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) See the information of the Committee

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

Committee's Minute _____
 Assigned See F.E. Melby. rpt.

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation W1039-0070