

REPORT ON WATER TUBE BOILERS.

No. 5474

3 - MAR 1947

Received at London Office.

of writing Report 26th June 1946 When handed in at Local Office 26th June 1946 Port of Halifax, Nova Scotia,
in Survey held at Amherst, Nova Scotia, Date, First Survey 14th March, Last Survey 26th April, 1946
Bk. on the "C" Type Coaster "MARY SWEENEY" (launched as Ottawa Maybeech") (Number of Visits 2) (Gross 518 Tons)
at Saint John, N. B. By whom built St. John Drydock & S.B.Co.Ld. When built 1947 (Net 233)
es made at Oakland, Cal, U.S.A. By whom made Atlas Imperial Diesel Engine Co.Ld. When made 1944
s made at Amherst, N. S. By whom made Robb Engineering Works Id., When made 1946.
nal Horse Power 98.9 Owners W. Lawrence Sweeney, Esq. Port belonging to Saint John, N.B.

TER TUBE BOILERS MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel The Steel Co. of Canada & Carnegie
of Approval of plan December 14th, 1945, New York. Illinois Steel Corporation.

Boilers One-Admiralty type water tube Working Pressure 200 Tested by Hydraulic Pressure to 350 Date of Test 26-4-46

of Certificate IR 101 Can each boiler be worked separately. Total Heating Surface of Boilers 620 square feet.

red draught fitted Yes Area of fire grate (coal) in each Boiler Oil fired

nd type of burners (oil) in each boiler One - A.E. Watts patent No. and description of safety valves on

boiler One 1 1/4" dia. Twin "Morrison" approved type Area of each set of valves per boiler {per rule 3.6 Pressure to which they

adjusted 200 lbs./sq.in. 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 and bunkers 3ft.6 ins. Height of boiler 11'-4"

h and Length 5'-6" x 9'-8" Steam Drums: Number in each boiler One Inside diameter 31"

ness of plates 9/16" Range of Tensile Strength 58420 lbs. Are drum shell plates welded

nged rivetted If fusion welded, state name of welding firm rivetted construction Have all the requirements of the rules

lass I vessels been complied with. Description of riveting: Cir. seams Single long. seams Double Butt

eter of rivet holes in long. seams 15/16" Pitch of rivets 3 1/2" Thickness of straps 9/16" Percentage strength of

joint: Plate 73.2% Rivet 101% Diameter of tube holes in drum 3-1/32" Pitch of tube holes 6-3/8"

ntage strength of shell in way of tubes 53.8% Steam Drum Heads or Ends: Range of tensile strength 58688 lbs.

ness of plates 1/2" Radius or how stayed 2'-6" Size of manhole or handhole 12" x 16" Water Drums: Number

h 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

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

eter 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

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

ers or Sections: Number 2 Material O.H. Steel Thickness 7/8" & 3/4" Tested by Hydraulic Pressure to 350 lbs. per sq. in.

as: Diameter 3" and 2 1/2" O.D. Thickness 8 and 9 BWG Number 22-2 1/2" O.D. 8 BWG Steam Dome or Collector: Description of

to Shell Inside diameter Thickness of shell plates Range of tensile

8-4 1/2" 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

n or End Plates: Range of tensile strength Thickness Radius or how stayed

PERHEATER. Drums or Headers: Number in each boiler Inside Diameter

ness Material Range of tensile strength Are drum shell plates welded

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

lass I vessels been complied with. Description of riveting: Cir. seams long. seams

eter 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

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

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

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

ves. Pressure to which they are adjusted Is easing gear fitted

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

The foregoing is a correct description,

J. T. Mackenzie Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits

During progress of work in shops 14th March and 26th April, 1946.

During erection on board vessel

boiler a duplicate of a previous case Yes - If so, state vessel's name and report No. 5473 Hfx.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built in conformity

h the Society's Rules and Regulations, and to approved plans. The workmanship is good, and in

opinion this boiler is eligible to be fitted into a vessel classed with the Society.

Survey Fee \$40.00 When applied for, June 26 1946

avelling Expenses (if any) \$16.00 When received, 19

mittee's Minute

ned For unfile see St. John. P.E. Reg. No. 1036

FRI. 9 APR 1946

Engineer-Surveyor to Lloyd's Register of Shipping.

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