

REPORT ON BOILERS.

No. 20.

REC'D NEW YORK

October 6, 1917

Received at London Office

OCT. 3 1917

Date of writing Report 25th Sept. 1917 When handed in at Local Office 4th Oct. 1917 Port of Chicago Ill.
 No. in Survey held at Manitowoc Wisconsin Date, First Survey Jan. 16th. Last Survey Sept. 15th. 1917.
 Reg. Book. on the TWIN SCREW MOTOR VESSEL "ADA" (Number of Visits 15) Gross 2124 Tons Net 1667
 Master Built at Manitowoc Wis. By whom built Manitowoc Shipbuilding Co. When built 1917-9
 Engines made at Stockholm By whom made J. & B. S. Bolinder Co. Ltd. When made 1917.
 Donkey Boilers made at Manitowoc By whom made Manitowoc Shipbuilding Co. When made 1917
 Registered Horse Power Owners United States Shipping Board Emergency Fleet Corp. Port belonging to Not stated.

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel Illinois Steel Company.

Number for record) Total Heating Surface of Boilers 733 sq. ft. Is forced draft fitted No. Oil Fuel No. and Description of
 Boilers One cylindrical multitubular S.E. Working Pressure 150 lbs. Tested by hydraulic pressure to 225 lbs. Date of test 19-5-17
 of Certificate 9 Can each boiler be worked separately Area of fire grate in each boiler No. and Description of
 Safety valves to each boiler One single spring Area of each valve 7.06 sq. ft. Pressure to which they are adjusted 150 lbs.
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boilers
 Smallest distance between boilers or uptakes and bunkers or woodwork INT. Mean dia. of boilers 8'-6" Length 8'-9"
 Material of shell plates S. Thickness 2 1/32 Range of tensile strength 28/32 T. Are the shell plates welded or flanged No
 Description of riveting: cir. seams L.S.R. long. seams T.R. D.B.S. Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 8 7/8
 Width of butt straps OUTER 11 1/4 INNER 18 1/4 Per centages of strength of longitudinal joint rivets 103.5 Working pressure of shell by
 plates 155.8 Size of manhole in shell 12" x 16" Size of compensating ring 36" x 32" No. and Description of Furnaces in each
 Boiler 2 Morrison Material S. Outside diameter 35 1/16 Length of plain part top Thickness of plates crown 13/32 bottom 1/32
 Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 158.2 Combustion chamber
 Material S. Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 1 1/16 Pitch of stays to ditto: Sides 7" x 6 1/2 Back 7" x 7"
 7 1/2" x 6 1/2" If stays are fitted with nuts or riveted heads Riveted Working pressure by rules 158.8 Material of stays S. Area at
 Smallest part 96 sq. in. Area supported by each stay 49 sq. in. Working pressure by rules 156.7 End plates in steam space: Material S. Thickness 25/32
 Pitch of stays 13 1/8" x 11 7/8 How are stays secured D. nuts Working pressure by rules 171 Material of stays S. Area at smallest part 2.760
 Area supported by each stay 158.8 Working pressure by rules 180.7 Material of Front plates at bottom S. Thickness 25/32 Material of
 Over back plate S. Thickness 25/32 BACK & FRONT HEADS EACH ONE PLATE Working pressure of plate by rules Diameter of tubes 3"
 Pitch of tubes 4" x 4" Material of tube plates S. Thickness: Front 25/32 Back 2 1/32 Mean pitch of stays 10" Pitch across wide
 End spaces 5" Working pressures by rules Int. 218.7 Back 154.3 Girders to Chamber tops: Material S. Depth and thickness of
 Boiler at centre 6 3/4" x 1" Length as per rule 22.75 Distance apart 6 1/16 Number and pitch of Stays in each 2-7 1/2"
 Working pressure by rules 209 Steam dome: description of joint to shell % of strength of joint
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed
 SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

MANITOWOC SHIPBUILDING CO.

The foregoing is a correct description,

Charles O. West

Manufacturer.

Vice President & Manager.

Dates During progress of 1917
 Survey work in shops Jan. 16, 31, Feb. 22, Mar. 16, 28, Apr. 11, 18, 21, May 16, 19.
 While During erection on 1917
 Boarding vessel May 19, July 2, 14, Aug. 20, Sept. 1, 15.

Is the approved plan of boiler forwarded herewith.

Yes.

Total No. of visits 15.

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &c.)

The above Boiler has been constructed under Special Survey and the material & workmanship employed are sound & good. It proved satisfactory under test and has been fitted on board the vessel in a satisfactory manner. In my opinion this Boiler is eligible to be classed + L.M.C.

Survey Fee ... £ \$50.00
 Travelling Expenses (if any) £

When applied for, 4th Oct. 1917
 When received, 15/11/17

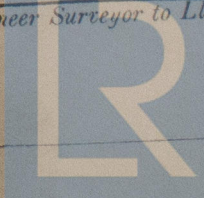
H. R. Whelland
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

New York OCT 9 1917

Assigned

+ dmb 9.17



Lloyd's Register
 5521-0211/12

TWIN SCREW MOTOR VESSEL "ADA"

Spare Gear: Full list of articles supplied:—

4 piston rings for each cylinder.

2 injection nozzles " " "

1 pressure valve " " "

1 suction " " " "

1 oil " " " "

3 valve balls " " "

8 valve springs " " "

1 spiral spring for fuel pump " "

1 ebomite plate for regulator " "

1 diaphragm for equalizer " "

2 air valve springs " " "

1 ebomite plate for reverse pump.

1 spiral spring " " "

2 regulator springs for each cylinder.

1 set of valve springs for compressor.

4 ignition bulbs.

8 " plugs.

1 connecting rod lower bearing complete

1 " " upper " "

1 gudgeon pin.

1 connecting rod lower bearing for compressor.

1 " " upper " " "

1 gudgeon pin complete.

4 fuel injection apparatus complete.

32 air springs.

2 link springs.

6 pawls.

6 springs for pawl.

6 regulator springs for main pump.

12 " " " " rev. "

1 low pressure suction valve.

1 " " discharge "

1 high " suction "

1 " " discharge "

1 propeller shaft LLOYDS. No 80. 7/8/17. H.R.M. SPARE.

2 propellers.

1 set coupling bolts.

Assorted bolts nuts & iron.

For one motor.

For ship. (2 motors).

H.R. McCalland.