

REPORT ON MACHINERY

Chicago. No. 19.

No. 14698.

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Survey held at Stockholm & Manitowoc. Date, First Survey 10th July 1916 Last Survey 22nd Feb. 1917
on the T. S. MOTOR VESSEL "ADA" STARBOARD ENGINES. (Number of Visits 18 Chicago. 15th Sept. 1917
+15=33. Gross 2124
Tons } Net 1667
When built 1917-9.Built at Manitowoc, Wis. By whom built Manitowoc S. B. & Dry Dock Co. No. 80. When made 1917.
made at Stockholm By whom made Messrs. J. & C. G. Bolinders Co. Ltd. when made 1917.
made at By whom made America order no. 125) when madeHorse Power 320 Owners United States Shipping Board Emergency Fleet Corp. Port belonging to Hot Stated.
Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes.

ES, &c.—Description of Engines *Boilerless two stroke cycle reversible with air injection.* No. of Cylinders 4 No. of Cranks 4
Cylinders 420 Length of Stroke 480 Revs. per minute 225 Dia. of Screw shaft as per rule 7" Material of screw shaft Steel
Screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight
Propeller boss Yes If the liner is in more than one length are the joints burned Yes If the liner does not fit tightly at the part
bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes If two
fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 2'-10"
Inlet shaft as per rule Dia. of Crank shaft journals as per rule 176 Dia. of Crank pin 180 Size of Crank webs 270 Dia. of thrust shaft under
as fitted 180 as fitted 104
5" Dia. of screw 6'-6" Pitch of Screw 5'-3" No. of Blades 3 State whether moveable No Total surface 15.5 sq ft.
Pumps 2 Diameter of ditto 100 Stroke 50 Can one be overhauled while the other is at work Yes.
Donkey pumps 1 Diameter of ditto 110 Stroke 130 Can one be overhauled while the other is at work
Key Engines 2 Sizes of Pumps 7" x 5" x 6" 7" x 8" x 10 No. and size of Suctions connected to both Bilge and Donkey pumps
Room 1-3" to well. 2-3" to Bilges (Ballast pump). In Holds, &c. 3" - Port & Starboard. Forward Hold & after Hold.

Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size Portable. 2"
Bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes
Connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Inlet Valves. Blow off cock.
Roses sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line Above
Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes
Discharge Pipes are carried through the bunkers No Bunkers How are they protected Yes
Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes
Shaft Tunnel watertight No Tunnel Is it fitted with a watertight door Yes worked from Yes

S, &c.—(Letter for record) Manufacturers of Steel

Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
Pressure Tested by hydraulic pressure to Date of test No. of Certificate
Boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
Space between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
plate
Satisfying ring No. and Description of Furnaces in each boiler Material Outside diameter
Main part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
bottom
Pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
as to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
Stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
Smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
Tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
Wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
Girder at centre Length as per rule Distance apart Number and pitch of stays in each
Pressure by rules Steam dome: description of joint to shell % of strength of joint
Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
Working pressure of shell by rules Crown plates Thickness How stayed
HEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

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