

Rpt. 4.

REPORT ON MACHINERY.

No. 704

RECEIVED NEW YORK

Received at London Office

Date of writing Report July 5 1919 When handed in at Local Office July 6 1919 Port of Vancouver, B.C.
No. in Survey held at Vancouver, B.C. Date, First Survey March 8 1918 Last Survey 4 February 1919
Reg. Book. on the Single Screw Steam Ship "War Chief" (Number of Visits 41)
Master A. B. Watson Built at Vancouver, B.C. By whom built J. Coughlan & Son Tons { Gross 5742.87
Engines made at Willesville, N.Y. By whom made Terr. Turbine Co. No. 50011 when made 1918 Net 4179.88
Boilers made at Vancouver, B.C. By whom made Vulcan Iron Works Ltd. when made 1918-9
Registered Horse Power 2650 Owners The Shipping Controller Port belonging to Vancouver, B.C.
Nom. Horse Power as per Section 28 526.50 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Vertical Reciprocating Double Reduction Gear No. of Cylinders 2 No. of Cranks 2
Dia. of Cylinders 13.86" Length of Stroke 100" Revs. per minute 100 Dia. of Screw shaft 13.86" Material of Steel
Is the 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
In the 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
between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes If two
liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 4.5"
Dia. of Tunnel shaft 12.28" Dia. of Crank shaft journals 12.28" Dia. of Crank pin 12.28" Size of Crank webs 12.28" Dia. of thrust shaft under
collars 13.4" Dia. of screw 17.0" Pitch of Screw 12.0" No. of Blades 4 State whether moveable Yes Total surface 81.50 sq. ft.
No. of Feed pumps 2 Diameter of ditto 8" Stroke 16" Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 8.5" Stroke 10" Can one be overhauled while the other is at work Yes
No. of Donkey Engines one Sizes of Pumps 12 x 12 x 12 Duplex No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 40" 3.5" Diam In Holds, &c. 2 in each Hold 3.5" Diam
No. of Bilge Injections 1 sizes 10" Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size Yes 10.5"
Are all the 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
Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both
Are they fixed 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 Below
Are they each fitted with a 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
What pipes are carried through the bunkers None How are they protected Yes
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Upper Deck

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

Total Heating Surface of Boilers 8008 Is Forced Draft fitted Yes No. and Description of Boilers 3 Single Ended Scotch Marine
Working Pressure 190 lb Tested by hydraulic pressure to 300 lb Date of test Oct 18 1918 No. of Certificate 18

Can each boiler be worked separately Yes Area of fire grate in each boiler 63.59 sq. ft. No. and Description of Safety Valves to
each boiler 20 lb Crosby Marine Area of each valve 9.6" Pressure to which they are adjusted 190 lb Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers 18" Mean dia. of boilers 14.9 1/8" Length 11.5 1/2" Material of shell plates Steel

Thickness 3/16" Range of tensile strength 65000 Are the shell plates welded or flanged Neither Descrip. of riveting: cir. seams Double Riv. Lap

Long. seams Double Riv. Butt Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 4.50" Lap of plates or width of butt straps 22 1/2 x 14 1/2"

Per centages of strength of longitudinal joint rivets 92.5 Working pressure of shell by rules 208.9 Size of manhole in shell 12 x 16"

Size of compensating ring 8 1/2" No. and Description of Furnaces in each boiler 3 Morrison Material Steel Outside diameter 48 3/16"

Length of plain part top 8 1/2" Thickness of plates crown 9/32" Description of longitudinal joint Weld No. of strengthening rings 1

Working pressure of furnace by the rules 195.9 Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 7/8"

Pitch of stays to ditto: Sides 10 5/32" Back 7 1/8" Top 7 1/8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 194.8"

Material of stays Steel Area at smallest part 1 5/8" Area supported by each stay 4.9" Working pressure by rules 253 End plates in steam space:

Material Steel Thickness 1 1/8" Pitch of stays 16 1/4" How are stays secured Nuts Working pressure by rules 193.0" Material of stays Steel

Area at smallest part 5.93" Area supported by each stay 3.15" Working pressure by rules 193 Material of Front plates at bottom Steel

Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 7 1/32" Working pressure of plate by rules 215.1"

Diameter of tubes 3.02" Pitch of tubes 4 1/2 x 4" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 7 1/32"

Pitch across wide water spaces 13" Working pressures by rules 213.4" Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 10 x 3 1/4" Length as per rule 3'-0" Distance apart 7 1/2" Number and pitch of stays in each 20 7 1/2" @ 12"

Working pressure by rules 236 Steam dome: description of joint to shell Yes % of strength of joint Yes

Diameter Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet holes Yes

Pitch of rivets Yes Working pressure of shell by rules Yes Crown plates Yes Thickness Yes How stayed Yes

SUPERHEATER. Type Loose Date of Approval of Plan June 21 1918 Tested by Hydraulic Pressure to 630 lb

Date of Test June 21 1918 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve 1 1/2" Pressure to which each is adjusted 210 lb Is Easing Gear fitted Yes

W471-0066

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Turbine one Thrust bearing complete, 2 Slides & nuts for Piston Bearing, 2 Slides & nuts for Main Gear bearing, 2 Slides & nuts for Piston Bearing, 1 Set of Coupling Bolts each case 1-20 Bolts casing joint, 1-20 Bolts for Turbine Joint, 2 Thermometers for oil cooling system, 1 Set of Bearing Buckets for 1 Gear wheel, 1 Set of Bearing Buckets for 1 pinion wheel, 1 Set of Piston Bearings 1/2 Set of Packing for Piston Glands 1/2 Set of Piston & bearing, 1 Thrust, 1 Set of Bilge Pump Valves, 1 Set of Feed Pump Valves, 1 Bucket & Rod for heating oil Pump, assorted Bolts & nuts, Steel Bars & Plates, Spare Propeller Blade, Spare Tail Shaft, Spare Boiler Tubes, 1 Set of Spare Check Valves, Spare Safety Valve Springs, Spare Superheater Coils, Condenser Tubes, 1 Set of Spare.

The foregoing is a correct description,

James Murdoch & Co.
Engineers & Shipbuilders Manufacturer.

Dates of Survey while building: During progress of work in shops -- 8/3/18, 14/3/18, 15/3/18, 14/4/18, 10/4/18, 15/4/18, 23/4/18, 30/4/18, 9/5/18, 24/6/18, 27/6/18, 10/7/18, 15/7/18, 25/7/18, 29/7/18, 30/7/18, 31/7/18, 1/8/18, 2/8/18, 3/8/18, 4/8/18, 5/8/18, 6/8/18, 7/8/18, 8/8/18, 9/8/18, 10/8/18, 11/8/18, 12/8/18, 13/8/18, 14/8/18, 15/8/18, 16/8/18, 17/8/18, 18/8/18, 19/8/18, 20/8/18, 21/8/18, 22/8/18, 23/8/18, 24/8/18, 25/8/18, 26/8/18, 27/8/18, 28/8/18, 29/8/18, 30/8/18, 31/8/18, 1/9/18, 2/9/18, 3/9/18, 4/9/18, 5/9/18, 6/9/18, 7/9/18, 8/9/18, 9/9/18, 10/9/18, 11/9/18, 12/9/18, 13/9/18, 14/9/18, 15/9/18, 16/9/18, 17/9/18, 18/9/18, 19/9/18, 20/9/18, 21/9/18, 22/9/18, 23/9/18, 24/9/18, 25/9/18, 26/9/18, 27/9/18, 28/9/18, 29/9/18, 30/9/18, 1/10/18, 2/10/18, 3/10/18, 4/10/18, 5/10/18, 6/10/18, 7/10/18, 8/10/18, 9/10/18, 10/10/18, 11/10/18, 12/10/18, 13/10/18, 14/10/18, 15/10/18, 16/10/18, 17/10/18, 18/10/18, 19/10/18, 20/10/18, 21/10/18, 22/10/18, 23/10/18, 24/10/18, 25/10/18, 26/10/18, 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