

REC'D NEW YORK FEB 5 - 1919

Received at London Office

Date of writing Report Jan 7 - 1919 When handed in at Local Office Jan 7 - 1919 Port of Vancouver B.C.
No. in Survey held at Vancouver, B.C. Date, First Survey 1-8-18 Last Survey 26-12-1918
Reg. Book. on the Twin Screw Auxiliary Wood Schooner "Cap Nord" (Number of Visits 9)
Master Van Housenbroeck. Built at North Vancouver. By whom built Lyalls Shipbuilding Co. Ltd. Tons { Gross 1464.68
Net 1208.52
When built 1918
Engines made at Oakland, Calif. By whom made Atlas Imperial Engine Co. when made 1918
Boilers made at Winnipeg, Mass. By whom made Dominion Bridge Co. when made 1918
Brake Registered Horse Power 175 Owners Societe D. Arment, Van-Hemelryck Port belonging to Vancouver, B.C.
Nom. Horse Power as per Section 28 36.1 each Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Four Cylinder Two Cycle Diesel Eng. No. of Cylinders 8 No. of Cranks 8
Dia. of Cylinders 11-5" 11 1/2" Length of Stroke 15" Revs. per minute 250 Dia. of Screw shaft as per rule 6.45 Material of screw shaft as fitted 6.5 Steel
Is the screw shaft fitted with a continuous liner the whole length of the stern tube No 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 No 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 no tight fit If two liners are fitted, is the shaft lapped or protected between the liners Yes Anti Corrosive Paint Length of stern bush 24"
Dia. of Tunnel shaft as per rule 6.57 Dia. of Crank shaft journals as fitted 6.625 Dia. of Crank pin 6.625 Size of Crank webs 8-5x3-7/8 Dia. of thrust shaft under collars 6.5 Dia. of screw 6.6 Pitch of Screw 4.5 No. of Blades 3 State whether moveable No Total surface 1300 sq. inches
No. of Feed pumps 4 Diameter of ditto 3" Stroke 4 Can one be overhauled while the other is at work Bilge pump
No. of Bilge pumps 4 Diameter of ditto 3" Stroke 4 Can one be overhauled while the other is at work Independent 16 B.H.P.
No. of Donkey Engines 2 Sizes of Pumps 4 1/2 x 2 3/4 x 4 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps Distillate engine
In Engine Room Two 3" Suctions to manifold In Holds, &c.
Donkey with 3" suction connected throughout to Bilge, Bilge manifold also connected from Engine to all Bilge connections
No. of Bilge Injections 1 size 4 Connected to condenser, or to circulating pump 6 x 5 3/4 x 6 Is a separate Donkey Suction fitted in Engine room & size Yes 3"
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
Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves
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 above
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 How are they protected
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 Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record) Manufacturers of Steel Carnegie, Pittsburg
Total Heating Surface of Boilers 1070 Is Forced Draft fitted No No. and Description of Boilers One Vertical Donkey Boiler
Working Pressure 125 lbs Tested by hydraulic pressure to 188 Date of test 29-11-18 No. of Certificate 34
Can each boiler be worked separately Area of fire grate in each boiler 23.2 No. and Description of Safety Valves to each boiler Two Manual Area of each valve 3.2 Pressure to which they are adjusted 125 lbs Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 4 1/2 Mean dia. of boilers 42 Length 120 Material of shell plates Steel
Thickness 1/2" Range of tensile strength 60,000 Are the shell plates welded or flanged Flanged Descrip. of riveting: cir. seams R.R. 2 Lap long. seams 3/4 x 3/4 Diameter of rivet holes in long. seams 15/16 Pitch of rivets 2 3/8 Lap of plates or width of butt straps 1/4 x 5 1/2
Per centages of strength of longitudinal joint rivets 9.6 Working pressure of shell by rules 140 Size of manhole in shell
Size of compensating ring No. and Description of Furnaces in each boiler one Material Steel Outside diameter
Height of furnace top 3'-6" Thickness of plates sides 5/8 Description of longitudinal joint D.R. Lap No. of strengthening rings
Length of plain part bottom 7 1/6
Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
Diameter of tubes 2" Pitch of tubes 2 7/8 Material of tube plates Steel Thickness: Front 5/8 Back Mean pitch of stays
Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each
Working pressure by rules 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
Date 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

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR.

State the articles supplied:

Chrome nickel steel coupling bolts for bolting fly wheel to crank. Chrome nickel steel coupling bolts for bolting compressor shaft to crank shaft. Marine steel bolts for connecting intermediate shaft to thrust shaft. Low pressure valve inlet & outlet interchangeable. Intermediate compressor valves. High stage compressor inlet valve with cages. High pressure outlet valves with cages. 1 cylinder cover complete for main engine with all valves, valve seat springs fitted. 1 cylinder head machined tested ground fitted with studs ready to receive other parts, one exhaust valve with stem. 1 exhaust valve nut, 1 exhaust valve spring, 1 exhaust valve bushing, 1 inlet valve with stem, 1 inlet valve with nut & inlet valve with spring. 1 spray valve complete, 1 piston complete, 1 connecting rod, main bearing bolts & nuts, 1 set piston rings for each engine. 1 set valves for daily fuel supply pump, 1 set of pistons for fuel pump, 1 set valves for water circulating pump, 1 set of valves for circulating pump, one set valves for bilge pump. 1 set of valves for scavenge pump if left valves are used.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - - 1/8/18, 13/8/18, 20/9/18, 23/9/18, 5/11/18, 25/11/18, 27/11/18, 29/11/18, 26-12-18. During erection on board vessel - - - 9 Total No. of visits 9 Is the approved plan of main boiler forwarded herewith ✓

Dates of Examination of principal parts—Cylinders 8-11-18 Slides 8-11-18 Covers 8-11-18 Pistons 8-11-18 Rods 8-11-18 Connecting rods 8-11-18 Crank shaft 8-11-18 Thrust shaft 8-11-18 Tunnel shafts ✓ Screw shaft 15-9-18 Propeller 23-9-18 Stern tube 8-13-18 Steam pipes tested 27-11-18 Engine and boiler seatings 1-8-18 Engines holding down bolts 27-11-18 Completion of pumping arrangements 27-11-18 Boilers fixed 25-11-18 Engines tried under power 2-10-18 & 29-11-18 Completion of fitting sea connections 20-9-18 Stern tube 13-8-18 Screw shaft and propeller 23-9-18 Donkey boiler safety valves adjusted 27-11-18 Thickness of adjusting washers 1/2" & 3/8" thick Material of Crank shaft Steel Identification Mark on Do. 462 Lloyd's 6-8-18 Material of Thrust shaft Steel Identification Mark on Do. 462 Lloyd's 6-8-18 Material of Tunnel shafts Steel Identification Marks on Do. 462 Lloyd's 6-8-18 Material of Screw shafts Steel Identification Marks on Do. 462 Lloyd's 6-8-18 Material of Steam Pipes Steel 2100 # Hydrostatic Test pressure Applied to Air & Spray Bottles 2 Lloyd's 30-8-18 24.

Is an installation fitted for burning oil fuel No Is the flash point of the oil to be used over 150°F. ✓

Have the requirements of Section 49 of the Rules been complied with Yes

Is this machinery duplicate of a previous case No If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c. These Engines are of the Diesel Oil Engine type and were built under Special Survey at Oakland California by the Atlas Imperial Engine Co and as far as can be seen found sound, material & workmanship being both good. Engines were installed under Special Survey and according to the rules. This vessel was tried under full power on light draft and attained the speed of 8 knots with Revs at 250 per min. There are six separate oil fuel tanks and these with all fittings were tested by water pressure to 15 feet above the tank tops. Tanks are fitted with metal lined trays below and all pipes fitted according to the Rules. A metal lined tray is fitted below the Engines. The Shaft Stents were made from the Approved Plans and tested by the Society's Surveyors. The intermediate & screw shafts were also tested by the Society's Surveyors. Two air bottles are supplied and these also were tested by the Society's Surveyors. The machinery is eligible in my opinion to have the record of L.M.C. 12-18 made in the Register Book in the case of this Vessel.

It is submitted that this vessel is eligible for

THE RECORD + L.M.C. 12.18. DB.18. M

Oil Engines. 4 SC. SA. 8 Cy. 11 1/2" - 15" Atlas Imperial Eng. Co. Oakland. Cal.

(Annual Survey) James Murdoch.

Engineer Surveyor to Lloyd's Register of Shipping 13/11

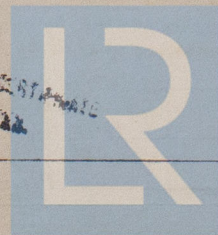
The amount of Entry Fee ... £ : : When applied for, Special ... £ 50: 00 : 19 Donkey Boiler Fee ... £ 15: 00 : When received, Travelling Expenses (if any) £ : : 10/6/19 19 RRB

TUE. - 4 MAR. 1919

Committee's Minute

Assigned

+ L.M.C. 12.18 oil engines subject DB.18.



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