No. 47888

Report of Survey for Repairs, &c., of Engines and Boilers.

(Received at London Office 25 AUG 1947)

Date of writing Report ..... 19 ..... When handed in at Local Office ..... 19 ..... Port of New York

Book 21108. Survey held at New York Date, First Survey June 9 Last Survey July 16 1947

on the Machinery of the Wood, Iron or Steel S.S. "CAPTAIN POLEMIS" (No. of Visits 12)

Tonnage { Gross 2828 / Net 1655 }

Nominal Power 269

No. of Main Boilers 2

No. of Donkey Boilers -

Pressure— Main Boilers 200

Donkey Boilers -

Vessel built at St. John, N.B. By whom St. John D.D. & S.B. Co. When 1943 (Year) 4 (Month)

Engines made at Montreal By whom Dom. Bridge Co., Ltd. When -

Boilers, when made (Main) 1943 (Donkey)

Owners ~~Papachristidis Co., Ltd.~~ Northern Star SS. Owners' Address (if not already recorded in Appendix to Register Book.)

Managers Port Montreal Voyage

If Surveyed Afloat or in Dry Dock Both (State name of Dock.) Todd Shipyards Corp. Brooklyn, N. Y.

Report No. Port

Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

Character ✱ for Special Survey Date of last Survey and of Periodical Surveys.	Years assigned now expired.	Machinery and Boiler Surveys (including date of N.B., if any)
✱ 100 A1		✱ LMC
6.46		4.43
		TS CLN 6.46
		BS 5.46

Insert Character of Ship and Machinery precisely as in the Register Book

Particulars of Examination and Repairs (if any) MS - BS &

All Surveys, when held, must be reported in detail and seriatim in the terms of the Rules. State clearly the Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and being detailed in the body of the report, should be briefly summarised at the end of the report. State also the and initials of any letters respecting this case. conversion to oil burning

In cases where the Surveyor has not made a special damage report he is required to state whether he ed his services for this purpose, and why they were declined -

Damage report made by anyone else? If so, by whom? -

Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? Yes

" Donkey " " " -

If not done, state for what reasons? -

parts of the Boilers could not be thus thoroughly examined? -

special means, in the absence of internal examination, were adopted by the or to assure himself of the thorough efficiency of those parts of each Boiler? -

Last date of internal examination of each boiler July 1, 1947 Present condition of funnel(s) Good

Surveyor examine the Safety Valves of the Main Boiler? Yes To what pressure were they afterwards adjusted under steam? 200

Surveyor examine the Safety Valves of Donkey Boiler? - To what pressure were they afterwards adjusted under steam? -

Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? Yes, and of the Donkey Boilers? -

Surveyor examine the drain plugs of the Main Boilers? -, and of the Donkey Boilers? -

Surveyor examine all the mountings of the Main Boilers? Yes, and of the Donkey Boilers? -

Screw shaft now been drawn and examined? No Is it fitted with continuous liner? - Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? -

Has it now been changed? - If so, state reasons -

Is the shaft now fitted been previously used? - Has it a continuous liner? - Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated?

Date of examination of Screw Shaft - State the distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft 1/8"

Engine parts, when referred to by numbers, should be counted from forward.

Is electric light and/or power fitted? Yes

Did the Surveyor examine the generators, motors, switchgear, cables and fuses? Yes

Is insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms.? Yes

If survey is not complete, state what arrangements have been made for its completion and what remains to be done Complete.

Done:- Vessel placed in drydock, propeller, after end of stern bush, sea cocks, and valves with shell connections examined and ound or now placed in good condition.

Machinery Survey:- Main engine cylinders, pistons, valves and rods, thrust intermediate shafting bearings, attabhed air, feed and bilge pumps examined.

Auxiliaries: - Examined auxiliary feed, general service, main circulating and ballast pumps; Nos. and 2 generators and dynamos, forced draft fan engine, main and auxiliary condensers, all found now placed in good order. Pumping arrangements examined and tested.

Electrical:- Generators and lighting circuits megger tested, existing grounds removed.

Boiler Survey:- The two (2) main boilers were examined over all parts with doors, mountings and fety valves and found or now placed in good condition. (P T O)

General Observations, Opinion, and Recommendation:—

State clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.; thus, for example, B.S. 9,11, B.&M.S. 9,11, ✱L.M.C. 9,11, or ✱LMC 140 lb., F.D., &c.) CS 3,34,

The machinery and boilers of this vessel are in good condition and eligible in my opinion to ain as classed with fresh record of LMC 7-47 and notation of "Fitted for oil fuel 7-47. F.P. 150° F.", subject to after end of TS being examined at next drydocking.

Fee (per Section 29) $: :

Damage or Repair Fee (if any) $: :

(per Section 29.) Boiler Survey $45. LMC $115.

Travelling expenses (if chargeable) $: :

Special Rpt. a/c Canadian Govt. $50.

Fees applied for July 24 1947

Received by me, Aug 4 1947

H G Saunders for M D Keller

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK AUG 6 - 1947

Assigned + LMC. 7.47. subject.

CERTIFICATE WRITTEN

Is a Certificate required? If so, to be sent to

010835-010845-0162½

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Port of NEW YORK Continuation of Report No. 47888 dated July 28, 1947 on the S.S. "Captain Polemis"

Safety valves adjusted under steam to 200 lbs.

Oil fuel installation examined under working conditions and satisfactory.

Conversion to Oil Fuel:- This vessel now converted from coal to oilburning using Bunker C grade oil.

Boiler fronts equipped with 6 "Todd Hex Press" model double casing forced draft type oil burning registers suitable for operations with the existing Howden forced draft system.

The Todd fuel oil buring equipment consists of duplex heaters, pumps and strainers complete with fittings.

The installation is to approved plans and Rule Requirements. (Plans attached herewith)

Oil Unit:- Todd Shipyards Corp. Combustion Equipment Division, New York. Tested 6-6-47 AMC LR.

Fuel Service Pumps (2) Dean Bros. 5½ x 3-3/4" x 5"

Transfer Pump - Worthinging - 5¼" x 4-3/4" x 5" #12-96184.

Heating coils are fitted in all fuel tanks consisting of 1½" extra heavy steel pipes, exhausts return to a common manifold and drain to inspection tank, all coils tested.

Fuel oil fitting and transfer piping, consisting of 4" risers with 4" branches to port starboard sides on bridge deck connected to discharge manifold in the fireroom.

Oil fuel unit equipped with emergency shut off controlled from deck.

Machinery Repairs:- Metallic packing renewed on piston rods of main engine.

Main engine crank pins and crosshead bearings refitted, corsshead pins dressed.

After intermediate bearing refitted and secured to pedestal.

Four defective tubes renewed in auxiliary condenser.

Attached main feed pump rams machined and bushings renewed.

Valve stem renewed in main circulating pump engine - bushing renewed on impeller shaft.

Steam and liquid end piston rings renewed in auxiliary feed pump. Fan engine overhauled, valve stem renewed.

No. 1 generator engine cylinder rebored, piston built up and rod renewed.

Governor overhauled on No. 2 generator engine.

Kinghorn valves renewed in ballast pump.

Boiler Repairs:- Defective s perheater joints renewed on headers.

Soot blower elements overhauled.

Seat and disc renewed on auxiliary feed line, also in auxiliary stop valve.

S R L:- "Aft end of tailshaft to be examined at vent docking".

A wire cable found around shaft between propeller and stern bush when drydocked.

Outer end of liner worn approximately 1/4" in way but considered efficient.

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