

REPORT OF SURVEY FOR REPAIRS, &c., OF ENGINES AND BOILERS

(Received at London Office

Date of writing Report 2nd. Sept. 19 48 When handed in at Local Office 7th. Sept. 19 48 Port of BARRY
No. in Survey held at BARRY. Date. First Survey Aug. 5th. Last Survey Aug. 20th. 19 48
eg. Book. (No. of Visits 7)

70796 on the Machinery of the ~~Wood~~ ~~Iron~~ Steel Sc. "PAN".
Gross 5595 Vessel built at San Pedro, Cal. By whom S. Western S.B.Co. When 1920 -
Net 3510 Engines made at Los Angeles, Cal. By whom Llewellyn Iron Works When 1920
Nominal Horse Power 3 Boilers, when made (Main) 1920 (Donkey) --
No. of Main Boilers 3 Owners Amarylly S.S.Co. Ltd. Owners' Address --
No. of Donkey Boilers -- Managers -- (If not already recorded in Appendix to Register Book.)
Steam Pressure in Main Boilers 210lb Port Panama Voyage --
in Donkey Boilers -- If Surveyed Afloat or in Dry Dock Comm. D. Dock & No. 1.
(State name of Dock.)

1st Report No. Port

Particulars of Examination and Repairs (if any) COMPLETION CLASS. LMC. & TS. 100 A1
Periodical Surveys, when held, must be reported in detail and serially in the terms of the Rules. State clearly the cause of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be briefly summarised at the end of the report. State also the dates and initials of any letters respecting this case.
damage cases where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose, and why they were declined no damage

as a damage report made by anyone else? If so, by whom? Centre
did the Surveyor personally go inside Main Boiler separately and make a thorough examination at this time? yes
" " Donkey " " none

not, state for what reasons What parts of the Boilers could not be thus thoroughly examined?

That special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler? centre
State latest date of internal examination of Main boiler 16/8/48 Present condition of funnel(s) Good

did the Surveyor examine the Safety Valves of the Main Boilers? yes To what pressure were they afterwards adjusted under steam? 11/210lbs/2"

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

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

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

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

as the screw shaft now been drawn and examined? yes Has it a continuous liner? yes Is an approved oil retaining appliance fitted at the after end? no

as shaft now been changed? no If so, state reasons - Has the shaft now fitted been previously used? - Has it a continuous liner? -

an approved oil retaining appliance fitted at the after end? - State date of examination of Screw Shaft 10/8/48 State the wear down in the stern bush 7/64 Is electric light ~~and~~ power fitted? yes If so, did the Surveyor examine the generators, motors, switchgear, cables and fuses? no

as the insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? no

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

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

How done to complete survey for records of class contemplated and L.M.C.

(See Liverpool Report 125849 and Cardiff Report 56167).

Vessel placed in drydock, examined propeller, after end stern bush and sea connection outside

fastenings and found or placed in good order.

Tail shaft drawn in for examination, sea inlet valves and cocks and all overboard discharge valves

opened, examined and found or placed in good order.

Pumping arrangements, port dynamo engine, main engine attached pumps, forward ballast pump, bottom

fuel pump, sanitary pump, auxiliary condenser (tested) and after plumberblock, steering and windlass

engines examined and found or placed in order.

The centre boiler examined internally and externally together with mountings, doors and manholes

and safety valves of three main boilers adjusted to above working pressure.

Fire quenching apparatus in engine room and stokehold, together with fuel burning apparatus examined

under working conditions. P.T.O.

General Observations, Opinion, and Recommendation: The Machinery of this vessel is eligible in my

(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, BS 9,11, B&MS 9,11 *LMC 9,11 or *LMC 140 lb., FD, &c.)

opinion to be classed with record of L.M.C. 7,48 and C.L. 8,48.

LICENCE CASE

Survey Fee (per Section 29) Class. T.S. 2 6 : : Fees applied for 19
" B.S. 10 : :
Special Damage or Repair Fee (if any) £ : : Received by me, 19
(per Section 29.)
Travelling expenses (if chargeable) £ : :
Committee's Minute
Assigned Lmc 7.48
S(C.L) 8.48

Engineer Surveyor to Lloyd's Register of Shipping.

Main and auxiliary machinery tested under steam, together with steering and windlass engines.

Wear and Tear Repairs.

Main circulating pump impeller and shaft renewed and bearings renewed.

Steering engine control valve chest bored and new valve fitted.

New blow down valve on ship's side, port side of engine room fitted.

New seat and valve (delivery) fitted to forward ballast pump.

2 New liners fitted to water end.

1 Piston (water) renewed, new rings fitted.

Port dynamo engine.

Valve chamber bored, new piston valve and spindle fitted, crank journals machined, main bearings remetalled, new piston rod and rings fitted.

Winch condenser circulating pump fitted 2 new muntz metal rods, 6 G.M. valves, 12 new valve springs, 6 fibre valves and new water end rings.

Main engine attached air pump bucket rod renewed.

Centre Boiler.

Port safety valve spindle straightened.

New G.M. distance piece fitted to blow down valve.

2 Internal feed pipes renewed.

A number of minor repairs effected as per Licence Authorisation No. 83.

The amendments as noted on the approved plan of the pumping arrangements, referred to in London letter "E" 1/9/48 (to Cardiff Surveyors) are in order as follows:-

- (a) Deep tank forward bulkhead is fitted with gutter way and sparring, and the after bulkhead is fitted with gutterway and drip trays, in accordance with Section 20B clause 9a.
- (b) Direct bilge suction from p. & s. sides of engine room are led to independent ballast pump.
- (c) Bilge injection is led to centrifugal main circulating pump.
- (d) Blank flanges are provided for use in deep tank in accordance with Section 34

Clause. 8a.



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