

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

(Received at London Office MAR 15 1938)

Date of writing Report 12 MAR 1938 When handed in at Local Office HULL Port of HULL

No. in Survey held at Hull Date, First Survey 26/1/38 Last Survey 10/3/1938 (No. of Visits 24)

No. in Book 8489 on the Machinery of the Wood, Iron or Steel HERPORT Ex FAIRPORT

Gross Tonnage 2606 Vessel built at Wyandotte By whom Detroit S.B. Co When 1919

Net Tonnage 1612 Engines made at Detroit By whom do When 1919

Nominal Horse Power 352 Boilers, when made (Main) 1919 (Donkey) ✓

of Main Boilers 2 SB Owners Hercoal Shipping Co Ltd Owners' Address London Voyage Mediterranean

of Donkey Boilers 1 Managers ✓ Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

of Main Boilers 185 lb ✓ Surveyed Afloat or in Dry Dock King George Dock Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

Donkey Boilers ✓ (State name of Dock.) King George Dock

Previous Report No. Port

Particulars of Examination and Repairs (if any) Redomestication

Medical Surveys, when held, must be reported in detail and seriatim in the terms of the Rules. State clearly 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 ideas being detailed in the body of the report, should be briefly summarised at the end of the report. State also the names 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 ✓

Has a damage report been made by anyone else? If so, by whom? ✓

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

Did the Surveyor personally go inside each Donkey Boiler separately and make a thorough examination at this time? ✓

What parts of the Boilers could not be thus thoroughly examined? ✓

What 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? ✓

Latest date of internal examination of each boiler P 1/3/38 S 1/3/38 Present condition of funnel(s) good.

Did the Surveyor examine the Safety Valves of the Main Boiler? yes To what pressure were they afterwards adjusted under steam? 185 lb

Did the Surveyor examine the Safety Valves of Donkey Boiler? ✓ 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? ✓

Has the screw shaft now been drawn and examined? yes Is it fitted with continuous liner? yes Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ✓

Has the shaft now been changed? yes If so, state reasons fractured at top of keyway.

Has the shaft now fitted been previously used? No Has it a continuous liner? yes Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ✓

Latest date of examination of Screw Shaft 12.22/2/38 State the distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft close fit.

Engine parts, when referred to by numbers, should be counted from forward. Is electric light power fitted? yes.

Did the Surveyor examine the generator, switchgear, cables and fuses? yes

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

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

For particulars of arrangements for holding survey see for letter H. of 20/1/38 and subsequent correspondence.

Work done: Vessel placed in dry dock. The propeller, sternbush and all outside fastenings examined. Screw shaft drawn, examined, and found fractured at top of keyway. New shaft fitted, marked LLOYDS W.E.S. 17.2.38. (Forging report & letters forwarded herewith). Stern gland and several coupling bolts renewed. Sea connections examined and found or placed in good order.

All cylinders, pistons, valves & casings, crank, thrust, and inter shafting, main & aux. pumps opened up, examined and found or placed in good order. Condenser tested. [See continuation sheet]

General Observations, Opinion, and Recommendation: The machinery of this vessel is now in safe working condition and eligible in my opinion to have record of LMC-3.38 T.S.(CL) N. 3.38, with Register Book particulars as originally classed.

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.S.M.S. 9.11, L.M.C. 9.11, or L.M.C. 140 lb., F.D., &c.)

CS 3.34, now in safe working condition and eligible in my opinion to have record of LMC-3.38 T.S.(CL) N. 3.38, with Register Book particulars as originally classed.

Fee (per Section 29) For particulars of fees see ship report herewith Fees applied for 14 MAR 1938

Damage or Repair Fee (if any) (per Section 29.) Report herewith Received by me, AWB Edwards

Working expenses (if chargeable) £ 19 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 29 MAR 1938

Decided No action

Lloyd's Register Foundation

W406-0235 (1/2)

Hull

Continuation of Report No. 48699 dated

14 MAR 1938

on the

Steel S.C. "HERPORT" EX "FAIRPORT"

Pumping arrangements and oil fuel burning installation examined and found or placed in good order. Main steam pipes (steel), several lengths of copper and steam pipe, and oil fuel heating coils hydraulically tested and found satisfactory. Electric lighting installation examined on completion of alterations, megger tested, tried under working conditions and found satisfactory. The existing dynamo engines were removed and a single steam engine driven 10 K.W. set now fitted. (Test certificate forwarded herewith).

Boilers and mountings opened up and examined internally and found or placed in good order. Safety valves adjusted under steam.

Repairs now done:-

M.P. piston ring & L.P. piston springs renewed.

M.P. piston rod & valve spindle, & H.P. valve spindle skimmed up.

H.P. & M.P. bottom end brasses reinstalled.

Air pump barrel skimmed out, bucket renewed and rod skimmed.

Ford bilge pump valves & seats renewed; after bilge pump ram skimmed up & new spear fitted.

Main condenser after tube plate fitted with bolted brass plate patch in way of slight fracture; a number of tubes and ferrules, and the C.I. after water end door, renewed.

Main circ. pump C.I. casing stuffing box casting, the bottom end brasses & the cross head pin renewed, & impeller shaft skimmed.

Ballast pump valve spindles renewed.

Ford feed pump rod skimmed up & bucket renewed. After feed pump water end liner & bucket renewed.

Oil fuel pressure pumps:- Pump end liners & both piston rods renewed in upper pumps; one piston rod renewed in lower pump.

About 20 tank & bilge suction pipes renewed in holds & E.R.

P. main boiler:- All plain tubes & about 20 stay tubes renewed.

About 40 corroded wrapper plate rivets renewed. All mountings removed and shell attachment studs renewed. The blow down & main check valve chests, the water gauge & abinometer & test cocks, and the safety valve springs & spindles all renewed. Both lower manhole doors & various seams built up by E.W. locally.

S main boiler:- About 200 plain tubes renewed. All mountings removed from shell and attachment studs renewed. The water gauge column & cocks and the safety valve springs and spindles renewed.

All repairs examined on completion, machinery tried under working conditions, and found satisfactory.

AWB



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whp6-0235 (2/2)