

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

(Received at London Office)

29 OCT 1946

of writing Report..... 21. 9. 46 When handed in at Local Office..... 19..... Port of Liverpool
 in Survey held at Birkenhead Date. First Survey 24/8/45 Last Survey 18/9/46
 look. (No. of Visits) 60
 22 on the Machinery of the Wood, Iron or Steel S.S. "HILARY"
 Gross 4403 Vessel built at Birkenhead By whom Bammell, Laird & Co. Ltd. When 1931 8
 Net 4350 Engines made at do. By whom do. When 1931
 Final 1033 Boilers, when made (Main) 1931 (Donkey) ✓
 Power Main Boilers 588 (SHP) Owners Booth & S. Co. Ltd. Owners' Address do.
 Donkey Boilers ✓ Managers do. (if not already recorded in Appendix to Register Book.)
 in Boilers 2300 Port Liverpool Voyage ✓
 Donkey Boilers ✓ Surveyed Afloat & in Dry Dock Bammell Laird
 (State name of Dock.)

Report No. Port Birkenhead
 Particulars of Examination and Repairs (if any) DRG. T.S. LMC. Repairs.
 Surveys, when held, must be reported in detail and serially in the terms of the Rules. State clearly the cause of Repairs, if any, detail, the nature and extent of Examinations and subsequent Repairs. Repairs on account of Damage (the cause of which must be stated at the end of the report. State also the dates and initials of any letters respecting this case.....
 In 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.
 Damage report made by anyone else? If so, by whom? no
 Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? yes
 " Donkey " no
 State for what reasons ✓ What parts of the Boilers could not be thus thoroughly examined? ✓
 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? ✓
 Last date of internal examination of each boiler 9. 4. 46.
 Surveyor examine the Safety Valves of the Main Boilers? yes To what pressure were they afterwards adjusted under steam? 230 lbs/sq"
 Surveyor examine the Safety Valves of the Donkey Boilers? ✓ 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? none 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? yes Has it a continuous liner? yes Is an approved oil retaining appliance fitted at the after end? no
 Has the shaft now fitted been previously used? ✓ Has it a continuous liner? ✓
 Approved oil retaining appliance fitted at the after end? ✓ State date of examination of Screw Shaft 3. 6. 46. State the wear down in the
 Bush close fit Is electric light and/or power fitted? yes If so, did the Surveyor examine the generators, motors, switchgear, cables and fuses? yes
 Insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? yes
 Survey is not complete, state what arrangements have been made for its completion and what remains to be done. complete
 ENGINE PARTS, when referred to by numbers, should be counted from forward.

NOTES:-
Docking and T.S. Vessel placed in dry dock. Examined propeller, screw shaft, bush, cocks, valves and outside fastenings of sea connections.
Machinery. Examined main engine cylinders, pistons, valves, valve casings, gears, crossheads, guides, connecting rods, crank-thrust and intermediate shafts with their bearings, Exhaust turbine rotor, casing, blading, ring and hood drive, attached and independent pumps, both steam and the emergency generator engines, steering engine and windlass, valves, cocks, and steamers of pumping arrangements; Condensers tested. Steam pipes examined and tested to Rule Requirements.
Boiler Survey. Boilers examined internally and externally with superheaters, mountings, manholes, doors and their fastenings; safety valves adjusted let steam as noted above.

1 Observations, Opinion, and Recommendation:- The machinery of this vessel, 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.) CS 3,34,
 as now seen, is eligible in our opinion to remain as now classed in fresh record of TS. Ch. 6, 46 and +LMC 9, 46.

Fee (per Section 29)..... LMC £ 28 : 0 : 0 Fees applied for
 Damage or Repair Fee (if any)..... £ 15 : 15 : 0
 Expenses (if chargeable)..... £ 47 : 5 : 8
 Received by me, 2 OCT 1946

LIVERPOOL - 8 OCT 1946

Attorney's Minute + LMC 9, 46.
T.S. 6, 46.

CERTIFICATE WRITTEN

W. G. Libb
for R. Batchelor & Co. Ltd. Birkenhead.
J. A. Tenny
 Engineer Surveyors to Lloyd's Register of Shipping.



Lloyd's Register
 Foundation

005307-00540-0080

Machinery Repairs. Steam bushwood renewed.
 Spare piston rod, corroded, renewed in tested material.
 I.P. guide shoe, cracked, renewed.
 Main condenser after door renewed.
 Aux. condenser water end and both doors renewed.
 Fan engine cylinder bored & new piston fitted.
 Emergency dynamo crankshaft machined and bearings remounted.

Boiler Repairs.
 After Centre boiler furnaces (3) renewed, marked as follows;
 Port. [Hoyos. Fur. 1st. (Advice note attached.)]
 Centre. [Hoyos. G.Y. 4. B.W.]
 Starboard. [Hoyos. Fur. 1st. D.W.]

The three combustion chamber back and wrapper plates cropped and past renewed; all plain tubes renewed.

Forward port boiler, about 150 defective plain and stay tubes and a number of defective back stays renewed.

Forward starboard boiler, about 150 defective plain tubes renewed. Sundry minor repairs effected. Hicence checked and work verified on board.

Locals.
 Main and essential auxiliary machinery examined under working conditions, in dock, on completion and found satisfactory.

Electrical Equipment.
 Installation examined whilst under working conditions. Generator, motor, control gear, switch board, cables, from aft to fore examined.

Repairs & Renewals.
 The whole of the installation with the exception of generator & main switchboard has been stripped out and renewed. The generator has been dismantled & thoroughly overhauled. The main switchboard altered to suit new arrangement of circuits. The new installation, repairs, renewals, alterations etc have been carried out in accordance with the approved plans & rules requirements. On completion the installation was examined whilst under full working conditions, circuit breakers tested & insulation test carried out. All found satisfactory. The installation was made up of:

(Generators 2 = 85kw 1 = 15kw - Total of 188kw.

CONT. SHEET 2.

HILARY

SPECIAL SURVEY Vessel placed in dry dock, the shell plating and Ladders cleaned, examined and renewed.
Examined Holds, Decks, Lower decks, Engine and Boiler spaces under Engine and Boiler, Gunber, Chain locker, Fore peak tank internally, Fore peak space, after peak tank internally, after peak space, all 28 tanks internally, Plating, under side lights, hatchways, coamings, supports and Battering arrangements, air and sounding pipes, masts, Riggers, windlass, steering gear, pumps, ventilators, W. 4. doors, General equipment and boots.
 Deep tanks examined internally.
 Freeboard verified. anchors and cables ranged and examined. Necessary ceiling lifted.
 Fore and after peak tanks, Deep tank and all 28 tanks tested to Rule Requirements.

WEAR & TEAR REPAIRS. Ladders lifted and examined. 3 Pintles renewed.

TOP OF S. GEAR HOUSE 4 plates in beam strake renewed.
 2 plates in 14 strake port and starboard renewed.
 2 stringer plate port and starboard renewed.

3 plates on top of isolation hospital renewed.
 End bulkhead of isolation hospital renewed.

Saloon front doubled in way of steam pipes.
 Upper deck doubled where locally wasted in way of Engineers Bathroom.

BUNKERS. 3 plates on side bunker coamings renewed.
 10 plates on forward and after bulkheads of saddleback renewed.
 Corner bars cropped and port renewed.
 1 Coaming plate on fore and aft bulkhead of saddleback on port side renewed.
 3 Coaming plates on trucked hatch between promenade deck and Foot deck renewed.
 after bulkhead of side bunker (S.S.) cropped and port renewed, and 2 stiffeners renewed.
 1 air pipe in Cross bunker renewed.

RESERVE BUNKER. Trimming hatch coamings on lower deck renewed.

NO 3 HATCH. No 3 Hatch beam sockets renewed. 2 Hatch beams renewed.
 Deck plating p.s. about No 3 Hatch on lower deck doubled.

all portholes and stern valves overhauled.

W. 1. Booms overhauled

a few minor wear & tear repairs carried out.

EQUIPMENT A first lower anchor and 2 mooring swivels have been supplied at this time.

Duplicate certificates have also been furnished for three spare shackles found on board the vessel. P.T.O.

markings verified with certificates. For particulars please see back of Report 8.

S. L. LIST Indented plating specially hammered and remains efficient. (See amended recommendation)

Stimpson (E. W. 12, 42) specially hammered and remains efficient, it is recommended that this item be now deleted from the list.

Caulking and rivetting of Forecastle and main decks hammered, rivetting hammer tested, but no defects found. It is recommended that this item be also deleted from the list.

Licence checked and Repair verified on board.

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