# ort of Survey for Repairs, &c., of Engines and Boilers.

No. 89675

REMARKS.

ting Report ..... 19 .... When handed in at Local Office - 8 SEP 1921 (Received at London Office .....)

Survey held at Birkenhead. Port of LIVERPOOL SAT. 10 SEP. 1921

on the ~~Machinery~~ Main Engine of the ~~Wood, Iron or~~ Steel "FULLAGAR" (~~S.S.~~ M/S. "MALIA") fitted in the ..... Date, First Survey Sept 20th Last Survey Aug 30th 1921 (No. of Visits 70) Master .....

Gross ✓ Net ✓ r 124 Boilers ✓ y Boilers ✓ ure— oilers ✓ Boilers ✓

Vessel built at ✓ By whom ✓ When ✓

Engines made at Birkenhead. By whom Cammell Laird & Co Ltd When 1920-7

Boilers, when made (Main) ✓ (Donkey) ✓

Owners T. & J. Brocklebank. Port ✓ Voyage ✓

~~Surveyed Afloat or~~ in ~~Dry Dock~~ (State name of Dock.) Cammell Lairds Shops.

eport No. ..... Port .....

ulars of Examination and Repairs (if any) ✠ L.M.C.

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

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). |
|---|---|---|
| | | ✠ L.M.C. 7.20. |

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 d? ✓ Was a damage report made by anyone else? If so, by whom? ✓

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

" Donkey " " " ✓

ot done, state for what reasons? ✓

arts of the Boilers could not be thus thoroughly examined? ✓

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

eyor examine the Safety Valves of the Main Boiler? ✓ To what pressure were they afterwards adjusted under steam? ✓

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

eyor examine all the manholes, doors and their fastenings of the Main Boilers? ✓ , and of the Donkey Boiler? ✓

eyor examine the drain plugs of the Main Boilers? ✓ , and of the Donkey Boiler? ✓

eyor examine all the mountings of the Main Boilers? ✓ , and of the Donkey Boiler? ✓

shaft now been drawn and examined? ✓ Is it fitted with continuous liner? ✓ or two liners? ✓ or is it without liners? ✓

ow been changed? ✓ If so, state reasons ✓

now fitted new? ✓ Has it a continuous liner? ✓ or two liners? ✓ or is it without liners? ✓

stance between lignum vitæ of stern bush and top of after bearing of screw shaft? ✓

y is not complete state what arrangements have been made for its completion and what remains to be done? This Main Engine has now been from the M/S. "FULLAGAR" (No 16345 in the Register) & is to be fitted as the Port Engine of the "MALIA" (No 23303 in the Register) at Glasgow.

The cylinders, pistons, valves, valve gear, connecting rods, guides, pumps, crank shaft, the remaining parts of the Engine have been dismantled, examined, and thoroughly hauled; The crosshead pins have been renewed; The circulating & forced lubication ll driven by the crank shaft at the forward end of the Engine have been removed, it is stood that independant pumps will be fitted on the M/S "MALIA" The two blast receivers have been cleaned, examined & tested to 2000 lbs/□"

e new thrust block has now been built under Special Survey, similar to that fitted Starboard Engine. for which Engine see Liverpool 1st Entry report No 81095. The original thrust shaft has been examined & fitted to the new block.

al Observations, Opinion, and Recommendation:—

learly 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 ny 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, or ✠ L.M.C. 9,11 40 lb., F.D., &c.)

This Main Engine is in good condition & eligible in our opinion to have record l ✠ L.M.C. with date when fitted in the M/S "MALIA"

per Section 28) ..... £15 15 0 Fees supplied for - 8 SEP 1921

Repair Fee (if any) ..... £ : : (er Section 28.)

xpenses (if chargeable) ..... £ , : Received by me, 5 11 21

John Dykes & Dyby Allison

Engineer Surveyor to Lloyd's Register of Shipping.

ttee's Minute LIVERPOOL - 9 SEP 1921

d

Transmit to London. ZR || See Gl. Rpt. 41414 GLASGOW 10 OCT 1921

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

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

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