

THE BRITISH CORPORATION
FOR THE
SURVEY & REGISTRY OF SHIPPING

Steel Screw Steamer
"bilumum"
Newcastle-on-Tyne

MACHINERY CERTIFICATE.

GLASGOW, 12th January 1920.

M^cCorquodale & Co. Limited, Printers, Glasgow and London.

010720-010726-0243

Engines, Description, Triple expansion S.C.
Name of Builders, where and when built, Messrs Richardson, Westgarth & Co Ltd Middlesbrough 1919
Diameters of Cylinders, 25'-4'-6" Length of Stroke, 45" Cub. ft. L. P. Cyl., 94.57
Diameters of Shafts, Crank, 13.4" Intermediate, 12.2" Propeller, 14.2"
Propeller, Diameter, 16' 0" Surface, 7.5 sq. ft. Pitch, 16' 3"
Boilers, Description, Cylindrical Multitubular Forced Draught, description, Natural
Number, Single ended, 3 No. of Furnaces in each, 3 Double ended, — No. of Furnaces in each, —
Name of Builders, where and when built, Messrs Richardson, Westgarth & Co Ltd Middlesbrough 1919
Dimensions, internal diameter, 13' 9 23/32" Length, 11' 6"
Total Heating Surface, 5925 sq. ft. Total Grate Surface, 155.1 sq. ft. Working Pressure, 180
Donkey Boiler, Description, — No. of Furnaces, —
Name of Builders, where and when built, —
Dimensions, internal diameter, — Length, —
Total Heating Surface, — Total Grate Surface, — Working Pressure, —
Steam Trial, Date, 22nd December 1919 Speed per hour, — knots.

PERIODICAL SURVEY OF ENGINES AND BOILERS.

The engines and boilers of all Vessels classed with the Corporation will be required to undergo Special Periodical Surveys at the same times as the Special Surveys on the hull. In cases of accident involving considerable repair and an extensive examination of the machinery, such examination may, with the sanction of the Committee, be considered equivalent to a Special Survey.

At each Special Survey the cylinders or turbines, pistons, valves, pumps, evaporators, thrust block and condenser, main and tunnel bearings, shafting, and the steam steering gear must be opened up for examination, and such other parts of the machinery, as may be considered necessary, are to be examined.

The arrangements for pumping from the several holds, as well as from the engine and boiler space, are to be inspected, and while the Vessel is in dry dock, all openings to the sea, together with the cocks and valves in connection with the same, examined; in addition, all iron and steel fastenings of sea cocks and valves to the shell plating should be removed for examination at each Special Survey No. 3. The propeller shaft should be drawn at least once every two years, and more frequently if considered necessary by the Surveyor, but when liners are fitted solid in one length, the shaft need only be drawn once every three years; the Committee are, however, prepared to consider representation from Owners as to special circumstances which may modify these requirements in particular cases.

When the after bearing is worn down $\frac{1}{4}$ inch with shafts not exceeding 9 inches in diameter; $\frac{1}{8}$ when over 9 and not exceeding 12 inches, and $\frac{3}{8}$ with shafts over 12 inches in diameter, the bearing must be rebushed.

At each Special Survey, the boilers, superheaters, and safety valves are to be carefully examined inside and outside, and the safety valves set to the working pressure, and the main steam pipes should be tested by hydraulic pressure every four years in the case of brazed copper pipes and every six years in the case of solid drawn copper pipes and of iron and steel pipes. Copper pipes should be annealed before being tested. If at any of these Surveys, the Surveyor considers it desirable, the actual thickness of plates and strength of stays are to be ascertained in order to determine the future working pressure, and the boilers and superheaters tested by hydraulic pressure.

In addition to the requirements of the Special Periodical Surveys, when six years old, and annually thereafter, the boilers, superheaters, and safety valves must be carefully examined and the valves set to the working pressure.

If it be found desirable, upon inspection, that any part of the engines or boilers should be examined again within a short period, it will be necessary for the Owner to comply with the Committee's requirements in this respect.

The donkey boilers of Sailing Vessels are to be subject to Special Periodical and Annual Survey in accordance with the foregoing requirements.

Special Survey No. 1 is due December 1923

Glasgow, 12th January 1920
Chief Surveyor.
Lloyd's Register
Foundation

THE BRITISH CORPORATION
FOR THE
SURVEY AND REGISTRY OF SHIPPING,
ESTABLISHED 1890.

(Appointed by the Board of Trade to approve and certify Load Lines under the Merchant Shipping Acts 1876 and 1890.)

MACHINERY CERTIFICATE.

M. B. S.*

"The Engines and Boilers of the
Steel Screw Steamer *Cilurnum* Off. No. 142855
have been constructed under the special supervision of the Surveyors to this Corporation,
and reported to be, on the 22nd December 1919 in good and safe
condition, at a working pressure of 180 lbs., and have been entered in the Register
Book of the Corporation, with the character M. B. S.* subject to Periodical Survey.

Witness our hands,

J. C. H. D.
for Chairman of Committee of Management.

W. A. S.
Secretary.

14 BLYTHSWOOD SQUARE,
GLASGOW, 12th January 1920



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