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# Lloyd's Register of Shipping.



Port

BIRMINGHAM.

24th December, 1943.

This is to Certify that

G. ANDERSON and H. McDONALD.

the undersigned Surveyor to this Society did at the request of

Messrs. Richardson Westgarth & Co. Ltd., West Hartlepool, attend at the Kingshall Engineering Works of Messrs. John Thompson (Wolverhampton) Ltd., for the purpose of examining during construction and welding by the Union Melt process the undernoted Water Drum (Starboard) which forms part of a Foster Wheeler "D" Type Boiler.

Water Drum Reference No. E.W.1459.

<u>Internal Diameter.</u>	<u>Length of Shell.</u>	<u>Shell Thickness.</u>	<u>End Thickness.</u>
2' 9"	9' 8"	1.9/32"	1.9/16"

The Drum was made of tested mild steel plates having an ultimate breaking strength of between 26/30 tons per square inch for the ends and between 28/32 tons per square inch for the shell.

The Drum was examined before, during and after welding, and as far as could be ascertained was found to be sound and free from defects.

The scantlings of the Drum and the shape and position of the welded joints are in accordance with the approved design.

All the requirements relating to routine test, X-ray examination, heat treatment and hydraulic test detailed in the Society's "Requirements for Class Welded Pressure Vessels" have been complied with.

The Drum was calibrated for distortion after annealing and found satisfactory.

A hydraulic test of 770 lb. per square inch was applied to this drum and whilst under this test the Drum was well hammered on both sides of and close to the welded seams without any signs of leakage being observed.

For the purpose of identification the Drum was stamped:-

E.W.1459 LLOYD'S No. 456.

Hydraulic test 770 lb. per sq. in.

W.P.480 lb. per sq. in.

H.M.D. 21/12/43.

*G. Anderson*

*H.M. Donald*

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:-

"While the Committees of the Society use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Society nor any Member of any of its Committees is under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of judgment, default or negligence of any of its Committees or any Member thereof, or the Surveyors, or other Officers or Agents of the Society."