

MANCHESTER.

4th October 1923.

W. LAKE and A. H. B. LAKE.

Messrs J. Gardner & Sons Ltd. of Patricroft, Manchester. attend at their works on the 6th April 1923. and subsequent dates in order to specially survey during construction at their works, three four cylinder single acting two cycle semi-Diesel engines numbered as below, together with air receivers of solid drawn steel, intended for the Motor Yacht "PRINCESS" No. 46, building by Messrs Furness Shipbuilding Co. Ltd. Haverton Hill-on-Fees.

The size of the cylinders are 7" bore by 8" stroke, crank shaft dia. 3½", Revolutions per minute 450, max. explosion pressure 300 lbs. per square inch. Rated B.H.P. 48.

The materials and workmanship employed in their construction are sound and good, and proved satisfactory under the tests prescribed by the Society's Rules.

Each air receiver was tested by hydraulic pressure to 400 lbs. per square inch with satisfactory results, and is suitable for a working pressure of 300 lbs. per square inch.

On completion the engines were examined on test, each direct coupled to a 25 kilowatt Crompton Dynamo at 450 R.P.M. and run under a 25% overload at 110 volts for 24 hours with satisfactory results and with a max. temperature rise in the generators of 67 degrees F.



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