

MANCHESTER.

26th February 1925:

W.I. ROBERTS. A. SWELLIE. and A.M.S. LANE.

Messrs Metropolitan-Vickers Electrical Co. Ltd. attend at their works at Trafford Park, Manchester, for the purpose of surveying the Turbines and Gears of the Steel Screw Steamer "MIDLESEX", 8588 tons gross register of London.

The following repairs were carried out:-

H.P. TURBINE:- Rotor rebladed throughout with stainless steel blades. Ahead diaphragms renewed, blading of stainless steel. A new set of diaphragm packing fitted. Velocity guide segments, ahead and astern, renewed, blading of stainless steel. Spindle glands and cylinder gland rings, forward and aft, renewed. New dummy strip fitted in the spindle packing glands, and dividing diaphragm gland rings. New nozzle blocks fitted, ahead and astern. Turbine bearings retailed. Nozzle control valves and chest, Michell bearing and trip gear overhauled. Spindle checked in lathe.

L.P. TURBINE:- Rotor rebladed throughout with stainless steel blades. Ahead diaphragms Nos. 1 to 3 inclusive, renewed complete with gland rings, blading of stainless steel. Remaining diaphragm gland rings fitted with new labyrinths. New spindle glands fitted, forward and aft. Spindle packing glands fitted with new dummy



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stri. Turbine bearings remetalled. Michell bearing and cylinder relief valve overhauled. Spindle checked in lathe.

GEARS:- Two High Speed pinions and flexible shafts renewed. Four 1st reduction wheel rims and four 2nd reduction pinion sleeves renewed. Both 1st reduction wheel centres renewed. Two 2nd reduction wheel rims renewed. Wheel centre bored and bushed, repressed on shaft and new bolts fitted. Shaft coupling renewed. 1st reduction bearings remetalled. 2nd reduction bearings rebored and all bearings realigned.

On completion of the above repairs the turbines and gears were examined during the steam trial at Messrs. Metropolitan-Vickers Electrical Co's Works, and found satisfactory. The gears were afterwards opened up, examined and found in good order.

For identification the main shaft coupling was stamped:-

LLOYDS
No. 130.
30-3-25.
A.S.

WBS:- III - 0 - 0

Arthur H. Lane
W. H. Roberts
Surveyors to Lloyd's Register
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Referred to Mr. S. A. Hill.



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