

## The Thermal Simulation of Hydraulic Cable Drum Trailers 15-Ton

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**Abstract :** Thermal is the main important aspect in any hydraulic system since it is affected on the hydraulic system performance. Therefore must be simulated the hydraulic system -that was designed- in this aspect before constructing it. In this study, an existed expert system was using to simulate the thermal aspect of a designed hydraulic system that will be used in an industrial field. The expert system which is used in this study is (Hydraulic System Calculations), and its symbol (HSC). HSC had been designed and coded in an interactive program userfriendly named (Microsoft Visual Basic 2010).

**Keywords :** fluid power, hydraulic system, thermal and hydrodynamic, expert system

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