

Libya
Ministry of Education
AL-Asmarya Islamic University
Faculty of Engineering



**Investigation of Heat Transfer Efficiency for the
Available Heat Engine Fluids in Libya**

**A graduation project submitted to the Chemical Engineering Department in
partial fulfillment of the requirements for the degree Bachelor of Science in
Chemical Engineering**

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ABSTRACT

Heat transfer has a variety application throughout our life, cars one of these touchable applications as are used every single day and especially the fluids for cooling car engines. In this research, the heat transfer efficiency of thermal motor fluids has been studied by conducting some laboratory experiments for four types of fluids that used in the cooling of motor engines available in the Libyan markets and studying some physical properties that affect the rate of heat transfer and calculate the total heat transfer coefficient for each type of the water, compared with each other, calculating the density of each sample of water, as well as the viscosity of each sample.

