



## **Desalting of crude oil and some products at Kurdistan region – Iraq**

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### **ABSTRACT**

*The removal of salt from crude oil for oil-field processing has been and still is a mandatory requirement. Salt in crude oil is, in most cases, found dissolved in the remnant brine within the oil. The chemical composition of these salts varies, but the major portion is nearly always sodium chloride. This remnant water exists in the crude oil as a dispersion of very fine droplets highly emulsified in the bulk of oil. To accomplish desalting, the crude is first heated to (80-110) °C in order to reach the required viscosity level. About 2-10% wash water added as an extraction agent in addition to 30% emulsifying agents to help dissolve salts and sediments, mixing time was 20 minutes. In this work, we attempt to formulate a method with easier conditions for desalting of Shiwashouk and Kahwergousik fields of operation crude oils (from different wells). The results show a significant decrease in chloride contents.*

**Keywords:** Desalting, crude oil, Kurdistan region.

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