Crude Oil Model Emulsion Characterised by means of Near Infrared Spectroscopy and Multivariate Techniques - DTU Orbit (18/12/2018)

**Crude Oil Model Emulsion Characterised by means of Near Infrared Spectroscopy and Multivariate Techniques**

Water-in-oil emulsions are investigated by means of multivariate analysis of near infrared (NIR) spectroscopic profiles in the range 1100 - 2250 nm. The oil phase is a paraffin-diluted crude oil from the Norwegian Continental Shelf. The influence of water absorption and light scattering of the water droplets are shown to be strong. Despite the strong influence of the water phase, the NIR technique is still capable of predicting the composition of the investigated oil phase.

**General information**

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