

LUX MONITOR™

A NOVEL TECHNOLOGY FOR MONITORING OF OIL-IN-WATER AND WATER-IN-OIL

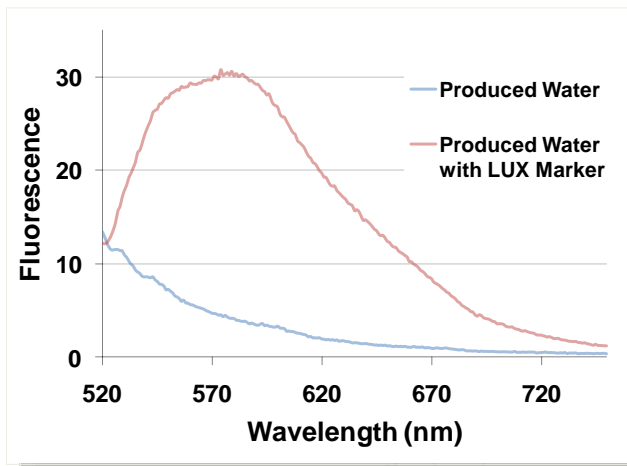
Oil in water analysis using conventional methods such as Infrared (IR) and Gas Chromatography (GC) can be cumbersome, requiring tedious sample extraction with hazardous solvents. LUX Monitor™ is a unique fluorescence based analysis method that does not require an extraction step and is compatible with hydrocarbon compositions ranging from condensate to heavier crude oil.

Key Features of LUX Monitor™

- ✓ Proven in real fluids
- ✓ No complex, hazardous extraction steps
- ✓ Independent of oil composition
- ✓ Sensitive to aromatics and non-aromatics
- ✓ Works with emulsions
- ✓ Increased contrast from background and improved discrimination between oil and other particles

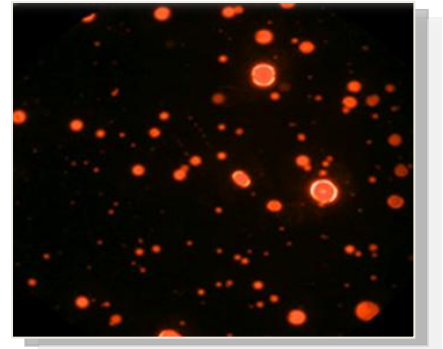
Principle of LUX Monitor™

The technical principle of LUX Monitor™ involves the use of LUX Markers™ which produce a fluorescent signal in the presence of hydrocarbons.

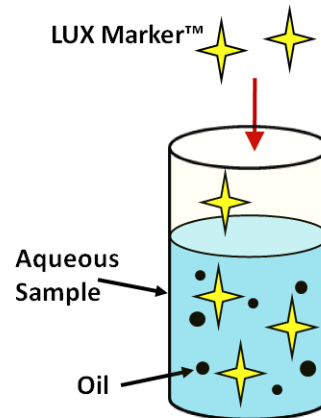


This monitoring approach can be used with a simple handheld fluorescence reader in fluorescence intensity mode for regulatory reporting or with an imaging system for droplet size analysis for process optimisation.

Image of Oil Droplets using LUX Monitor™

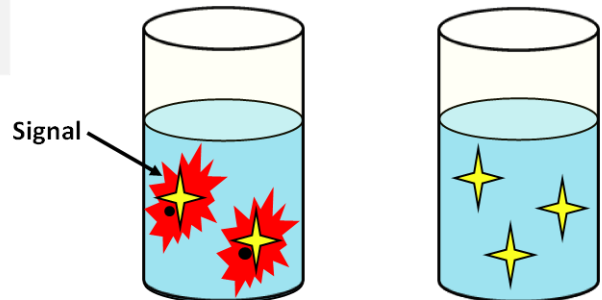


Step 1 - Marker added to test sample



Step 2 - Measurement of signal

Oil Present → Signal No Oil → No Signal



Quantity of oil related to size of signal



FOR MORE INFORMATION CONTACT:
DR CAMERON MACKENZIE
CM@LUXASSURE.COM
T+44 131 516 7290
WWW.LUXASSURE.COM

UNIT 5.3
RESEARCH AVENUE SOUTH
HERIOT WATT RESEARCH PARK
EDINBURGH EH 14 4AP, UK