

# Trigonox® K-LC: the Superior Cost-Effective Breaker Solution

Oilfield breakers alter fluid viscosity, enhancing recovery and operational efficiency in processes such as fracking and wellbore cleanup.

Trigonox® K-LC as breaker for oilfield solutions:

- Trigonox® K-LC is an organic hydroperoxide that can be used to break down the polymers used in fracking fluids.
- It exhibits exceptional performance in breaking down guar-based fracking fluids, ensuring a complete and efficient polymer degradation thereby improving the flow of oil or gas.
- It can offer delayed breakdown of viscosity, providing a more controlled and sustained reduction in fluid viscosity. This characteristic enables better management of viscosity over extended periods, aligning with operational requirements.
- Trigonox® K-LC is an efficient and cost-effective alternative to encapsulated persulfates.

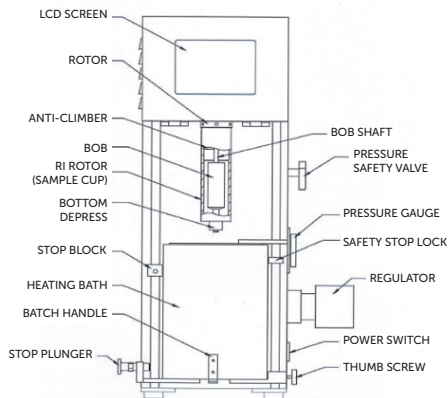
## Nouryon



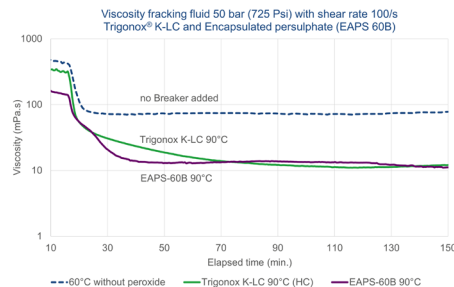
# Breaker Achieving Superior Results at Lower Cost

## Test procedure

The dynamic viscosity was measured with the Grace M5600 HPHT (High Pressure High Temperature) rheometer. This rheometer is specifically engineered to operate at high pressures and temperatures, making it suitable for a wide range of applications in industries such as oil and gas, geophysics, chemical engineering, and materials science. The effectiveness of breakers was tested at 50 bar and 90°C.

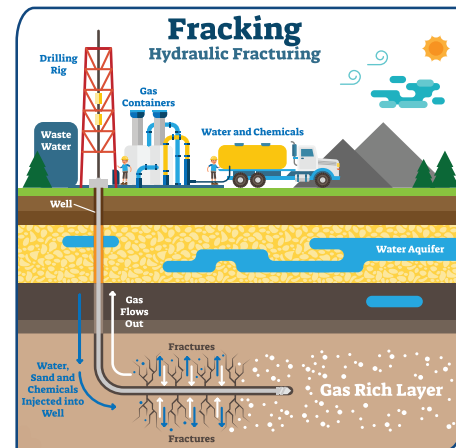


## Comparison between Trigonox® K-LC and EAPS 60B



## Conclusions:

- Under the circumstances tested Trigonox® K-LC gave performance comparable to encapsulated persulfate.
- The operating window of Trigonox® K-LC might be somewhat wider than that of encapsulated persulfate
- Trigonox® K-LC is the cost-effective alternative to encapsulated persulfate



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