

4 reasons

to choose the right partner for your CCUS operations

In carbon capture and storage technology (CCUS), lubrication is not just a detail but a key driver of performance. Extreme conditions, sustainability goals, and compressor reliability demand more than standard oils. Here are four reasons why the right partner makes all the difference.

1 Ensure reliable performance under extreme conditions

Klüber's high-performance oils are engineered for CO₂ compressors operating under extreme pressure and temperature. They reduce wear, resist oil breakdown, and maintain stability. This helps keep your equipment running smoothly even in demanding CCUS environments.

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2 Extend service life and reduce maintenance

Carbonic acid-induced corrosion and oil carryover can lead to frequent cleanings, increased wear, and costly downtime. Klüber lubricants are formulated to resist these effects, enabling longer maintenance intervals, fewer unplanned interventions, and reduced overall effort in demanding CCUS environments.



3 Lower your total cost of ownership

Unplanned maintenance, frequent spare part replacements, and inefficient lubrication can drive up operating costs in CCUS plants. Klüber's advanced formulations help reduce wear, extend equipment life, and minimize oil-related complications. The result: improved cost efficiency across your operations.

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4 Unlock hidden lubrication potential

Every CCUS plant faces unique stressors. Our experts analyze your compressor setup and operating conditions to uncover lubrication challenges and identify opportunities for optimization. This lays the foundation for long-term reliability, improved efficiency, and consistent performance.



Challenge	Standard Oils	Klüber CCUS Compressor Oils
Viscosity Drop (Dilution)	Questionable	Calculated
High Pressure Stability	Moderate	Excellent
Oil Carryover Rates	High	Low
Maintenance Intervals	Frequent	Extended
Sustainability	Basic	EcoVadis Certified

Ready to meet the right partner for your CCUS success?

Our experts help you find the ideal lubricant solution – matched to your compressor type, operating conditions, and industry. Connect with us to find the right solution for your application.