Background
During core sampling, drillstring vibrations were adversely affecting the efficiency and quality of core recovery.

Technologies
- Vibrations monitoring service of the GN4 data acquisition system

Vibrations Monitoring Maximizes Core Integrity
Real-time analysis and control of drilling parameters prevents breaks and fractures in core samples

The real-time vibrations monitoring service of the GN4 acquisition system highlighted the severe torsional vibrations that caused the broken and fractured core.

For the second core, the data from the vibrations monitoring service was used to adjust drilling parameters, reducing vibrations and resulting in a clean and unbroken core.

Using high-frequency acquisition and dedicated processes within the vibrations monitoring service of the GN4 acquisition system, vibrations were monitored from the surface. This enabled the operator to manage drilling parameters and minimize drillstring vibrations, ensuring the recovery of a clean and undamaged core.