The first standardized system for offline oil sampling that safely captures a live accurate fluid sample without exposing personnel to the line of fire or the operator or technician to any fluid pressure.

Benefits

OSS
OIL SAMPLING SOLUTIONS

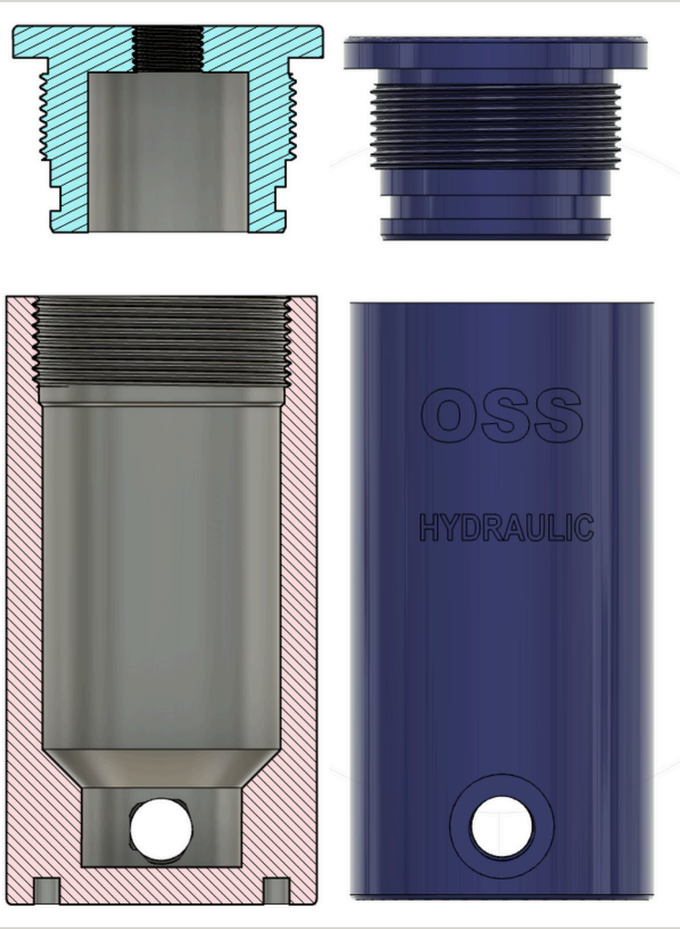
• Genuine live, representative samples: Samples are taken from moving oil in the line or return path, reducing
stratification effects and improving analytical confidence.
• Zero-or-minimal downtime: No need to stop the turbine or disturb drain plugs. Sampling can align with routine
nacelle inspections.
• Safety by design: Closed-loop fittings and non-spill check valves minimize exposure to hot oil and pressure;
standardized procedure reduces human error.
• Earlier fault detection: More reliable trending reveals gearbox bearing and gear wear, pitch/yaw reducer
issues, varnish potential, and hydraulic degradation sooner.
• Simple install & retrofit: Compact inline or tee-in kits, 316 stainless hardware, and flexible hose sets suit
cramped nacelle layouts.
• Cleaner samples, cleaner nacelles: Drip-free coupling and purge routines reduce spills and housekeeping time in the nacelle.

Wind Turbine Applications

Typical Sampling Points in a Wind Turbine

- Main gearbox oil (return line, kidney loop, or filter downstream port)
- Yaw drive gearboxes (each reducer)
- Pitch system (hydraulic power unit reservoir/return or pitch gearboxes)
- Hydraulic brake system (if separate)

Each Sample Unit is clearly engraved with the different type of fluid that it is being captured for sampling. This will help to ensure samples are not mixed-up during collection.



OSS
OIL SAMPLING SOLUTIONS

THE FIRST SAFE AND RELIABLE FLUID SAMPLING SOLUTION FOR ALL COMMERCIAL AND INDUSTRIAL APPLICATIONS

- Protect High-Value Assets – extend equipment life, prevent catastrophic failures.
- Reduce Risk Exposure – improve operator safety in hazardous environments.
- Support Compliance – environmental & reliability reporting standards.
- Maximise Uptime – avoid costly production interruptions.
- Lower Total Maintenance Costs – predictive maintenance over reactive repairs.

Hose Connections are standard JIC type as used on the current live sample stations. Stations can be mounted in different positions on a machine and hoses routed from each compartment.

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PATENT PENDING
OFFLINE SAMPLER