

# SYSTEMATIC OIL SAMPLING (S.O.S)

## S.O.S ANALYSIS TESTS

Defective bearings, piston rings that don't move and high oil consumption. These are all symptoms of engine problems associated with engine oil condition. Three aspects play a role in ensuring that engine oil is in top condition: using the right engine oil, regular oil system servicing and taking oil-samples regularly.

Such a check gives you insight into how the engine functions and enables early identification of possible problems. Pon Power will immediately contact you if the test results indicate damage to your engine, to recommend instant measures.



## S.O.S ANALYSIS TESTS

SOS analysis consists of tests developed by Cat engineers and chemists, where the primary task is to determine the condition of the engine rather than the state of the oil. For example, high concentrations of iron, chromium or aluminium, can indicate a faulty piston ring. High concentrations of silicon, lead or aluminium can indicate abnormal bearing deterioration. You have the opportunity to test all liquids included engine oil, transmission and driveline oils, hydraulic oil and coolant. Our analysis will give you a clear overview of the engine's condition with follow-up recommendations!

## GOOD REASONS FOR ANALYSIS

- Enables repair before failure
- Avoid costly downtime for the engine and for the personnel
- Uncover the problems while they are small and inexpensive to correct
- Optimizes component life
- Opportunity to extend your service intervals
- Avoid unnecessary oil changes
- Quick diagnoses and repairs
- Save money on scheduled maintenance
- Documented service history for the engine
- Documentation towards insurance companies

## TECHNOLOGY FACILITY IN NORWAY

Pon Power's laboratory for SOS analyses, situated in Norway, is a top technology facility with highly experienced personnel. Every year about 80.000 samples are analysed in our laboratory. Our collaboration with Caterpillar's technical centre ensures you the necessary technical advice for your engine. We recommend to take an oil sample every 250 hours and coolant at least once a year! Taking these oil samples regularly is crucial for trending in order to get the full overview.



## FLUID SAMPLE KIT

Fluid sample kit includes everything you need to take a good sample: pump, hoses, knife, sample bottles and envelopes for submission, as well as an instruction manual on sampling. As a contract customer for the SOS program you will receive a complete fluid sample kit. Ready for use!

You will usually receive the results and recommendations within 24 hours after the lab has received your samples. The analyses are presented in a report and easy to understand. You will also find suggestions of quick action and/or detailed recommendations. Pon Power are always available for questions regarding the report or to discuss specific recommendations.

To sign a S.O.S program contract or to find out more, please contact your Account Manager!