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SYSTEMATIC OIL SAMPLING (S.O.S.)





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Systematic Oil Sampling monitors your engine

Unnoticed, slow engine wear is like an assassin that can ruthlessly strike when you are unprepared. The result is expensive repairs and unscheduled stand-stills. Pon Power offers you Systematic Oil Sampling (S.O.S.). This type of preventive maintenance keeps you informed of your engine's condition and the lubricant used.

S.O.S. detects hidden engine problems

Systematic Oil Sampling is based on regular laboratory analyses of lubricant samples. You take a lubricant sample from your engine at set times and send it to Pon Power's S.O.S. lab. Our laboratory technicians check the oil sample for traces of abrasive particles. For example, a high concentration of iron, chromium or aluminium could indicate a broken piston ring. An increased concentration of silicon, lead or aluminium could indicate abnormal bearing wear.

S.O.S. sheds light on the lubricant's condition

The lubricant's condition is analysed using an infrared test. The presence of carbon black, signs of oxidation or increased sulphation indicate defects that could increase your engine's

wear indices. An additional viscosity measurement enables the engine oil's lubricating effect to be checked. These contaminants can considerably reduce the lubricating effect of engine oil.





S.O.S. prevents unexpected stand-stills

If the results of the lubricant analysis give cause, we provide you with professional advice on necessary maintenance and repair work. Your engine's condition can be closely monitored on the basis of the logbook. This enables services and any repairs to be scheduled in good

time and prevents you being confronted with unexpected engine stand-stills.

Lubricant samples

Pon Power's lubricant analyses are based on the latest developments and use the most advanced measuring equipment. S.O.S. analyses comply with NEN ISO 9002 procedures.

Our fully-automated processing system guarantees that the analysis results are reported quickly and professionally. As an official Caterpillar dealer, we have access to the manufacturer's data on material composition and wear limits for engines.



S.O.S. on-line

To address market demands, we have put the analysis results on-line for customers via S.O.S. on-line. You can easily log on to the Internet site at <http://www.sos-online.nl>, where you have instant access to all the test results for your lubricant. This unique service is completely free.

S.O.S. offers maximum operating reliability at minimum cost

Pon Power provides a total package of preventive services. Systematic Oil Sampling is just one of them. To complete the total package there is

also the Technical Engine Analysis, the Technical Electrical Analysis, and the Telecontrol System. You can combine these various types of preventive maintenance if you would like to be assured of your engine's availability and performance at the lowest cost. If you conclude a preventive inspection contract, we take responsibility for your engine, so that you can concentrate on your own operational management.





The advantages of S.O.S.

- you have a permanent insight into the condition of your engine and lubricant
- you prevent damage to your engine at marginal costs
- you prevent unscheduled standstills
- you help to increase the life of your engine considerably
- you maintain the optimum product value
- your engine achieves optimum fuel consumption
- your engine achieves optimum efficiency
- your engine produces minimum CO₂ and NO_x emissions

The advantages of S.O.S. on-line:

- the measurement details are always accessible
- the system has comprehensive search functions
- you get your own digital records
- you can compile your own lubricant analysis reports
- your measurement results can be displayed graphically
- you can retrieve your measurement history for up to five years
- new analysis results are automatically reported via e-mail
- S.O.S. on-line is completely free

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