

Honing Oil

Engine manufacturing at world leading heavy truck manufacturing. Sweden

Problem

When honing cylinder liners, large amounts of fine particles are produced. To keep the honing oil as clean as possible a transor filter for the oil is installed. The transor filter system is a fine filter system that serves 3 honing machines in the cylinder liner production. However, the amount of fine particles forces frequent changes of filter and oil, and as a consequence the cost is high. **The customer wants to reduce filter and oil changes and costs, while maintaining the quality of the oil.**

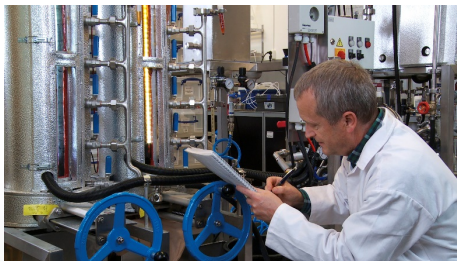
Solution

Pilot testing with ROCCO GS started with oil discharged from the transor filter system. Both chemical and physical oil testing was done before and after DST treatment and the result was compared with new oil. The result was so good that the customer decided to do a full-scale testing with the treated oil in the production line for engines.

Result

Microscope-based image analysis of filter residues showed that the DST™ treatment lowered the particle concentration with 99,9 %, from ISO-code 22/21/16/13 down to 12/10/7/6.

The results show that with the RecondOil ROCCO GS, installed on-line or off-line, it is possible to keep the honing oil particle free and still fulfil all other criteria and requirements.



ROCCO™ GS, pilot equipment

