

Triple R case study

Application: steam turbine

Oil volume: 3.500 liters turbine oil

Purpose: cleaning of an 8 years old turbine oil with a NAS 11 contamination level and 50% sludge contamination, instead of replacing the oil.

Result achieved: NAS 7, 90% removal of the sludge contamination.



On demand of STORK Turbo Service - Netherlands, Triple R Netherlands performed a total cleaning of a steam turbine.

The turbine oil was 8 years old, had a very high contamination level (NAS 11) and also contained a high level of sludge and oxidation residues (+50%).

Triple R Netherlands supplied an CS-SS306-H80-1R mobile filter rig.

First the oil was transferred into cubitainers, than the system was physically cleaned and after that filled again with the same turbine oil.

Once the turbine was back to normal operation, the Triple R filter rig was running for an additional 4 weeks in a bypass loop.

The CS-SS306-H80-1R contains 6 x M300 2 micron absolute filter elements and has a flow of 35 l/min. During this job 1 set of filter elements had to be changed.

The outcome was a perfectly clean oil, NAS 7 and a 90% removal of the sludge present in that oil.

For STORK the advantage was the reuse of the oil, no oil change and no oil waste. Stork very much appreciated the high quality cleaning efficiency, the fast and simple solving of their problem, minimizing standstill of the turbine, and the important savings resulting from this Triple R cleaning service.

