

Case Study
Next Generation
of Centrifuges
for Railway
Applications

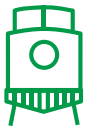
ESC 600 Centrifuge for Railway Applications

Further enhanced service interval by providing faster and cleaner service operation and higher return on investment.



Innovation

Upgrade oil system with the latest ESC 600 centrifuge



Application

Railway



Outcome

Faster and cleaner service operation, increased return on investment & demonstrated cost savings in lube oil maintenance



Background

Following market feedback, the Easy Service Centrifuge (ESC) has been specifically designed to be the next generation of centrifuges by providing a cleaner, faster and easier 'almost tool less' service operation.

Situation

In Berlin, Germany one of our many rail clients has a V330 class railway and it features a diesel engine model which is protected with an automatic back flushing oil filter system.

Application Details

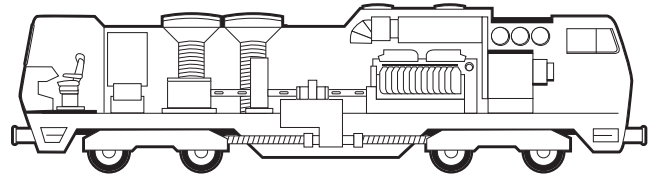
Performance	Values
Pump delivery	1.75 bar (idle) - 7 bar
Fuel type	Diesel
Lube oil system capacity	1,200 liter
Oil type	Mobilgard 430 NC
Oil operation temperature	80 °C - 102 °C

Solution

The ESC 600 was installed in the backflush line of the automatic backflush oil filter for a highly efficient removal of sludge and other solid contaminant from the back flushed oil. The client and the service team have been extremely pleased with the performance and benefits of the ESC 600.

Results

Results were recorded for up to 8,100 hours with the unit still running without any issues. During the trial period, there has been extensive research and development carried out using the data that has been gathered from the trial. An impressive 1.5 kilograms of contaminant was collected over the trial period.



Conclusion

The ESC 600 centrifuge proved significant, demonstrating the same level of lubricant filtration as the replaced unit but with the added benefit of a faster and cleaner service operation. The ESC 600 also increased the return on investment for the client by offering further savings in service downtime, personnel and tooling costs.

Overall the benefits of the ESC were well received by the client and demonstrate MANN+HUMMEL's commitment to providing leadership in filtration by constantly innovating and seeking products and solutions which can improve our environment and daily life.



en 0121 © MANN+HUMMEL GmbH