

Case story

Background:

Göran Nilsson owner and manager of Nordic Teknik & Handelskonsult AB had the choice of investing in new wheel loaders or reduce the exhaust emissions of his existing fleet of well maintained machines in order to keep working as a subcontractor to a large construction company in Sweden.

The solution:

In this case a retrofit particulate filter was selected as the most cost efficient solution. The challenging exhaust temperature profile of the wheel loaders called for a robust and an active particulate filter system that was independent of the exhaust temperature profile. The choice fell on a CCT® active from STT Emtec.

The CCT® active is an active particulate filter system based on catalytic combustion and secondary diesel injection. The catalyst together with the wall flow particulate filter collects up to 99% of the harmful particulates (PM) and more than 90 % of the carbon monoxide (CO) and hydrocarbon (HC) emissions. The system is periodically regenerated* automatically by the control system and no interaction from the driver is needed. The four retrofitted wheel loaders have been in operation since 2011.

*Regeneration is the process where the collected particulates in the filter are oxidized by heat.

