

CASE STUDY

DPF-BU Burner regeneration installed on forklift truck

Forklift trucks operating in closed or partly closed areas in Germany need to have a DPF system installed according to the TRGS544 regulation relating to occupational health.

Background:

A DPF was installed on a TCM forklift truck to meet occupational requirements of the TRGS554 regulation.

In this special case the DPF requirements were:

- DPF installation inside the counter weight
- Access to the burner from the rear
- Regeneration independent of external energy

As a solution, the silencer was removed and a DPF-BU 80 system was installed.

The forklift truck can operate until the filter monitor informs the operator to stop the machine and start the regeneration via a push button on the dashboard of the monitor.

The burner is supported with combustion air from a small compressor and heats up the collected soot in the filter to the ignition point of 550-620°C. The combustion takes only 25 minutes, then the filter is clean and the forklift truck can be used again for the next shift.



DPF-BU 80 installed in the counter weight

Summary:

Product:	DPF-BU 80SL, Burner regeneration
Application:	TCM 25
Engine:	Nissan QD32; 36 kW; 3.15L
Location:	Germany
Installation Date:	2011

