



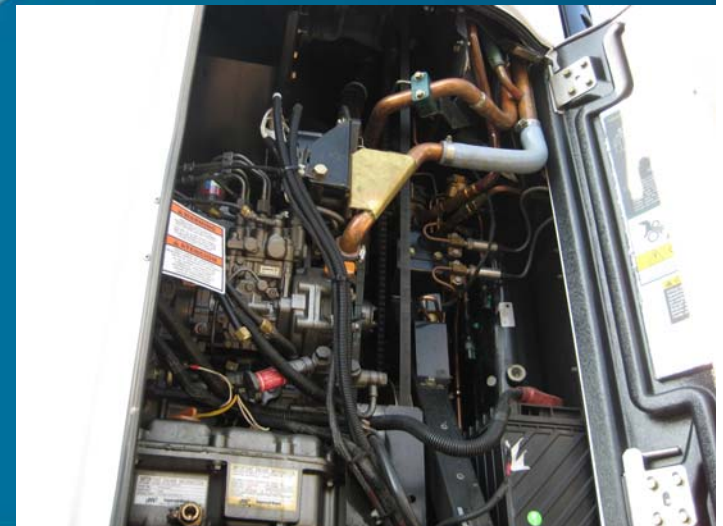
# THERMO KING

## Verifying TRU Passive DPF Cold Ambient Performance



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Number: P-17



# Passive DPF Cold Ambient Performance in a Transport Refrigeration Unit (TRU) Poster# P-17

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## Objectives:

- To determine if the duty cycle of a TRU is suitable for application of a passive DPF.
- To increase general knowledge within Thermo King of exhaust aftertreatment, as very little has been published on the topic relating to small, in-use, industrial equipment diesel engine emissions reduction by retrofit.
- To address the need for cleaner emissions in diesel powered (TRU) industrial equipment.

## Highlights:

- Test bed includes a Level-2 continuously regenerating DPF installed on an in-use TRU application, using a naturally aspirated, 2.2-liter, 4-cylinder diesel, running on ULSD.
- In the test cell, it was observed that DPF performance under typical climatic conditions of North America could be met.
- This passive DPF is now verified by ARB to achieve greater than 50 percent PM reduction in TRU applications.