



Assessment of the Emissions Behavior of Higher Mileage Class-8 Trucks and Engines

James D. Smith, Robert Caldwell, Julian Davis,
Cleophas Jackson Jr., Carl Ryan, Chien Sze

*National Vehicle and Fuel Emissions Laboratory
United States Environmental Protection Agency*

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Summary

Goal

- Assess compliance with not-to-exceed (NTE) emission standards

Evaluation Method

- In-situ testing over highway routes
 - PEMS (NO_x, HC, CO, CO₂)

Results

- Generally good performance
 - Some challenges

- Evaluate manufacturer-determined deterioration factors (DFs)

- Engine dynamometer testing at multiple service accumulation points
 - Compare with certification data

- Generally appropriate for NMHC+NO_x, CO
 - Questionable PM

- Assess compliance with emission standards after significant service accumulation

- Engine dynamometer testing
 - FTP, SET, NTE

- Mixed compliance results
 - Soot-NO_x trade-off evident
 - Baseline for continuing studies of newer technology packages