Impact of RME on Nanoparticle Emission

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Tested fuels bends with RME:

Chassis dynamometer:
1. Diesel (S < 10 ppm)
2. Diesel + 10% RME
3. Diesel + 20% RME
4. Diesel with CRT
5. Diesel + 15% and CRT
6. Diesel + 50% and CRT

Engine dynamometer:
1. Diesel fuel (S < 10 ppm)
2. Diesel + 10% RME
3. Diesel + 20% RME
4. Diesel + 30% RME
5. 100% RME
6. Diesel + 20% RME + CRT

Smoke emission: noticeably diminished black smoke and opacity, both steady-state and transient conditions, improving with larger RME content.

Particle size distribution: consistent curtailment of particles larger than 80 nm but some increase, at all operating states, of particles smaller than 80 nm.

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