

Development of an Accelerated Ash-Loading Protocol for Diesel Particulate Filters



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Poster P-11

Development of an Accelerated Ash-Loading Protocol for Diesel Particulate Filters (P-11)

- Accelerated protocol developed
 - Small engine bench
 - Fuel doped with 5% lube oil
 - Evaluated cordierite, SiC and mullite
 - Various PGM loadings
 - Consistent soot loading and regeneration
- Ash effects in DPFs
 - Details depend on substrate
 - Linear increase in backpressure
 - Ash affects active regen T
 - Initially lower with catalysts
 - With ash, all converge to $\sim 600^{\circ}\text{C}$

