Method Development: Identification of the Soluble Organic Fraction of Particulate Matter on DPF Soot.

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Identification of Extractable Organics from DPF
Soot is Part of Overall Soot Oxidation Project.

Studies of oxidation kinetics are being conducted in a 3-phase approach.

- **Phase 1:** Do adsorbed HC species have an effect on oxidation kinetics? (CLEERS)

- **Phase 2:** How do HC species effect kinetics?
  - Chemical and physical characterization of PM deposits in 1”x3” DPF cores.
  - Under what conditions do relevant HCs exist on the PM? (fuel, engine conditions, combustion type)

- **Phase 3:** How do these observed changes in kinetics relate to DPF regeneration?