
SMOKE EMISSIONS

PRI-D Dramatically Cuts Smoke Opacity

How PRI-D Reduces Smoke Opacity: Extensive laboratory studies of diesel fuel behavior in combustion have established that during the second and third stages of combustion, a process called polymerization occurs.

During this process, large, high carbon weight molecular structures are formed. These structures do not fully burn, and form petroleum coke residue in the third combustion stage. This residue forms deposits on engine components, and is exhausted as particulate emissions.

The thermal stability chemistry of **PRI-D** blocks the polymerization process. The large carbon structures are not permitted to form. As a result, the fuel burns more completely. The amount of unburned residue is greatly diminished. Engine components remain clean, and particulate emissions (visible as smoke opacity), are greatly reduced.

PRI-D Opacity Reductions

<i>Company</i>	<i>%Opacity Baseline</i>	<i>% Opacity PRI-RS Treated</i>	<i>% Opacity Reduction</i>
<i>NCTD</i>	16.75	10.00	40.23
<i>SDT</i>	27.75	11.55	58.37
<i>FALLBROOK</i>	46.86	36.00	23.17
<i>L.A. TASK FORCE STUDY</i>			51.91

