

FUEL LUBRICITY

PRI-D Improves ULSD Fuel Lubricity

How PRI-D Improves Fuel Lubricity: PRI-D contains a refinery grade lubricity additive package proven to provide superior lubrication to today’s ULSD diesel fuels.

HFRR LUBRICITY TEST METHOD

Accepted by SAE and ASTM, the standard test method to measure diesel fuel lubricity is conducted on the High Frequency Reciprocating Rig (HFRR). With HFRR, a ball is placed on a flat surface and rapidly vibrated back and forth with a stroke distance of one millimeter while 200 grams of weight is applied. After a proscribed time period, the flat spot in the ball is measured, establishing the extent to which the additive has reduced wear rates.



HFRR PRI-D TEST RESULTS

Fuel	Additive	Dosage (ppm)	microns	% Wear Reduction
West Coast ULSD	Untreated	0	761	
West Coast ULSD	PRI-D	500	531	30.22

Fuel	Additive	Dosage (ppm)	WSD - microns	% Wear Reduction
Canadian ULSD	Untreated	0	576	
Canadian ULSD	PRI-D	500	353	38.72

Fuel	Additive	Dosage (ppm)	WSD - microns	% Wear Reduction
Northwest ULSD	Untreated	0	684	
Northwest ULSD	PRI-D	500	443	35.23

Fuel	Additive	Dosage (ppm)	WSD - microns	% Wear Reduction
Eastern ULSD	Untreated	0	604	
Eastern ULSD	PRI-D	500	329	45.53

Fuel	Additive	Dosage (ppm)	WSD - microns	% Wear Reduction
Southwestern ULSD	Untreated	0	607	
Southwestern ULSD	PRI-D	500	483	20.43