



## WARREN OIL ULTRA LOW SULFUR No. 1 DIESEL FUEL

### PRODUCT DESCRIPTION

Warren Oil Ultra Low Sulfur No. 1 Diesel Fuel is refined from selected crudes, and is carefully blended to produce a high quality fuel. Warren Oil Ultra Low Sulfur No. 1 Diesel meets the needs of most automotive, marine and stationary engine applications that require a No. 1 fuel. It also exceeds current EPA on-road requirements for sulfur content, enabling the use of advanced aftertreatment technologies, and conforms to ASTM D-975 Diesel Fuel specifications.

### APPLICATION

Warren Oil Ultra Low Sulfur No. 1 Diesel Fuel is recommended for use in all on- or off-road heavy duty trucks, automotive, transit bus, marine and stationary diesel engine applications requiring an ultra low sulfur No. 1 diesel fuel.

### FEATURES

Ultra Low Sulfur Content -- Warren Oil Diesel far exceeds the current Federal requirements for fuel sulfur level enabling the use of advanced aftertreatment technologies. Its ultra low sulfur content helps prevent corrosion of engine parts, helping to reduce wear and tear on your engine. Injectors remain cleaner and deposits are fewer, which means reduced oil contamination and significantly less smoke and odor. When used in combination with aftertreatment technologies, engine emissions of particulates, hydrocarbons, and carbon monoxide are reduced to unsurpassed low levels.

Controlled Lubricity -- Warren Oil Diesel is additized to assure adequate lubricity to protect fuel injection systems.

High Quality Control - Controlled Volatility -- Volatility and viscosity are controlled to help give a correct spray pattern, good injector lubrication, complete combustion, good fuel economy and power output.

Low Cold Flow Properties -- Warren Oil Diesel has naturally occurring low cloud and pour points, which keeps fuel flowing in extremely low temperatures, helping to prevent fuel "gelling" and storage or handling problems.

PROPERTY	TEST METHOD	LIMIT
Aromatics, vol. %, max.	D-1319	30
Ash, wt. %, max.	D-482	0.01
Cetane Number, min.	D-613	45
Color, ASTM, max.	D-1500	2.5
Conductivity, cu, min. (1)	D-2624	75
Copper Corrosion, 3 hrs @122 °F, max.	D-130	3
Distillation, oF	D-86	
Temp.@ 90%, recovered, max.		550
Flash Point, oF, min.	D-93	100
Gravity, °API, min.	D-287	37
Lubricity (SBOCLE), g, min.	D-6078	3100
Pour Point, oF, max. (2)	D-97	-30
Sulfur, total, wt.%, max.	D-5453	0.0030
Viscosity, cSt @ 40°C	D-445	1.3 – 1.9
Water & Sediment, vol.%, max.	D-2709	0.05

#### Notes

(1) Conductivity may vary with season. Call Quality & Technical Service for details.

(2) Pour point values vary with region and season. Call Quality & Technical Service for details.