

## Northland Pride Series Diesel Engine Oil

### Description:

Pride Series is a high performance, heavy-duty diesel engine oil designed to provide exceptional performance in a variety of mixed fleet applications. Pride Series exceeds the American Petroleum Institute's (API) newest diesel engine oil service classification CJ-4, and the API SM service classification for gasoline engine requirements. Pride Series is specifically formulated to provide exceptional performance in severe duty, emission-restricted and EGR (Exhaust Gas Re-circulation) diesel engines. The versatility of Pride Series qualifies this engine oil to fulfill demanding requirements in domestic diesel and gasoline engine applications.

Pride Series engine oils utilize state-of-the-art additive technology unique in its ability to maintain highly effective detergent and dispersant performance throughout the most demanding service intervals. This delicate additive system balance provides robust reserve alkalinity (TBN), while maintaining exceptional piston deposit control. The superior performance of Pride Series in the control of harmful combustion and oil oxidation deposits is critical to minimizing oil consumption and preventing premature piston ring wear.

Pride Series is especially formulated to provide superior soot dispersion for contemporary emission-restricted and EGR diesel engines, and exceeds the lubricant performance requirements of the latest engine designs. Pride Series 15W-40 meets the latest Caterpillar ECF-1, Cummins CES 20078, Volvo VDS-3 and Global DHD-1 extended service interval oil performance specifications.

Pride Series multi-grade engine oils utilize a superior-performing European style viscosity-index improver, which provides exceptional high temperature, high shear performance without sacrificing critical cold temperature pumpability. Laboratory and engine test data demonstrates the capability of Pride Series multi-grade engine oils to provide rapid lubrication in cold temperature operations, reducing critical engine wear during engine start-up. Pride Series 15W-40 provides both outstanding high temperature, high shear performance for consistent lubricant film strength, and minimal permanent shear loss for "stay-in-grade" performance, even in extended service operations.

### Typical Properties — Pride Series

SAE Grade	<b>15W-40</b>
API Classification	CJ-4/SM
Viscosity cST @ 100°C	14.8
Viscosity cST @ 40°C	113
Viscosity Index	135
Total Base Number	10

### Hazardous ingredients

<u>Ingredient</u>	<u>percent</u>	<u>TLV/PEL</u>	<u>V.P.</u>	<u>CAS #</u>
Solvent refined, hydrotreated heavy oil	45-60	5 mg/m3	-	64742547
Solvent refined, hydrotreated residual oil	10-15	5 mg/m3	-	64742570
Solvent refined, catalytic dewaxed oil	10-15	5 mg/m3	-	64742707
Additive containing zinc	< 20	None	-	mixture

This material does not contain any chemical listed as a carcinogen or potential carcinogen by OSHA, IARC Monographs or National Toxicology Program