

D16-HD

Blending Syrup for HD ELC / OAT Coolant

FEATURES

- **Extended Life Coolant (ELC) additive provides a service life of 300,000 miles / 600,000 miles with extender at half-life.**
- **Applicable to both water only and glycol based coolants.**
- **Does not contain Nitrite, Amine, Phosphate, or Silicate (NAPS-Free).**
- **Safe for elastomers used in hoses and gaskets.**
- **A combination of many organic acids provides multi-metal corrosion protection, especially for aluminum.**
- **Multiple scale inhibitors/dispersants**
- **Convenient concentrated liquid for easy blending.**
- **Non foaming**
- **Patent pending technology.**

DESCRIPTION AND USE

Dober D16-HD is a single component additive system used to blend heavy-duty, extended life coolants meeting ASTM D6210 standards. This additive package contains extended life corrosion inhibitors based on organic acids and provides maximum protection against damaging rust and corrosion in engine cooling systems. This inhibitor package is free of nitrite, amine, phosphate and silicate. This patent pending technology does not use 2EH acid nor any other organic acid that is aggressive to hoses and gaskets. Coolants made from D16-HD are suitable for use in modern heavy-duty diesel engines.

This additive package when blended with ASTM E-1177 grade glycol and following Dober's blending procedure is designed to meet the following industry specifications:

ASTM D-6210 Specification for HD Coolant
ASTM D-3306 Specification for LD Coolant

RECOMMENDED APPLICATIONS

D16-HD is formulated for use in heavy-duty applications for on-highway, off-road, marine, agricultural, mining, and construction equipment.

It is compatible with major coolant types for top-off and full-service.

Cummins	International
Detroit Diesel	John Deere
Freightliner	Mack Truck
General Motors	Ford
Kenworth	Peterbilt
PACCAR	Volvo
Mercedes-Benz	MAN
MTU	Scania

ADDITIVE TYPICAL PROPERTIES

Dosage	5.3%bv in premix
Color	Pale Yellow
Specific Gravity @68F	1.184
Approximate Density	9.895 lbs/gallon
Approximate pH	10.0
Approximate pH at (Recommended dosage)	8.0 to 8.8

STORAGE AND HANDLING

Store Dober D16-HD at moderate temperatures of 35° to 100°F (2° to 38°C). To ensure maximum activity this product should be used within two years. Keep containers closed when not in use.

SAFETY PRECAUTIONS

A Material Safety Data Sheet (MSDS) containing detailed information about this product is available upon request. The MSDS is also available online at <http://msds.dobergroup.com>

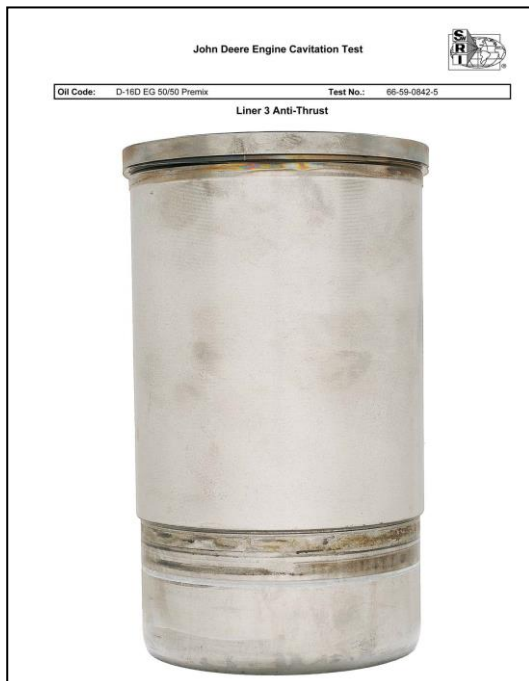


Antifreeze Premix 50/50 Typical Properties

TEST PARAMETER	ASTM METHOD	PASS/FAIL	RESULT
Effect on automotive finishes	D-1882	Pass	Pass
Freeze Point (°C)	D-1177	Pass	-38.9F / -39.4C
Boiling Point (°C)	D-1120	Pass	227.7F / 108.7C
Ash Mass %	D-1119	Pass	0.7
Glassware Corrosion Test	D-1384	Pass	Pass
Water Pump Cavitation Test	D-2809	Pass	Pass
Aluminum Corrosion Test	D-4340	Pass	Pass
Simulated Service Test	D-2570	Pass	Pass
Specific Gravity	D-5961	Pass	1.0802
pH 50% vol in DI H2O	D-1287	Pass	8.5
Reserve Alkalinity (mL)	D-1121	Report	6.8
Foam (mL/sec)	D-1881	Pass	90/2.4

JOHN DEERE CAVITATION TEST ASTM D-7583

**PASS: Dober
D16-HD**



FAIL: Other Substandard Product

