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VANDERBILT

Technical Data

VANLUBE[®] EZ

Lubricant Additive

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Petroleum Department

VANLUBE[®] EZ

Lubricant Additive

ANTIOXIDANT

ANTIWEAR

EXTREME PRESSURE AGENT

Typical Properties

Composition:	Zinc dialkyldithiocarbamate, 75-95 m% Amine dialkyldithiocarbamate, 5-25 m%
Physical State:	Yellowish/Amber Liquid
Density at 15.6°C, Mg/m ³ :	1.1154
Viscosity at 40°C, cSt:	5,000 maximum

VANLUBE EZ is a concentrated version of **VANLUBE AZ** that contains no diluent oil. It is a clear, light-colored, and free-flowing liquid. **VANLUBE EZ** is recommended for use in greases and industrial lubricants. Recommended treatment levels are 0.1 to 2.0 mass percent.

Typical Physical and Chemical Properties

<u>Properties</u>	<u>VANLUBE EZ</u>	<u>VANLUBE AZ</u>
Color, ASTM D 1500	4.0 maximum	5.0 maximum
Viscosity at 100°C, cSt	40-70	8.7 minimum
Flash Point, PMCC, °C	93.3	136
Zinc Content, %	11.2	6.25
Sulfur Content, %	21.5	12.25

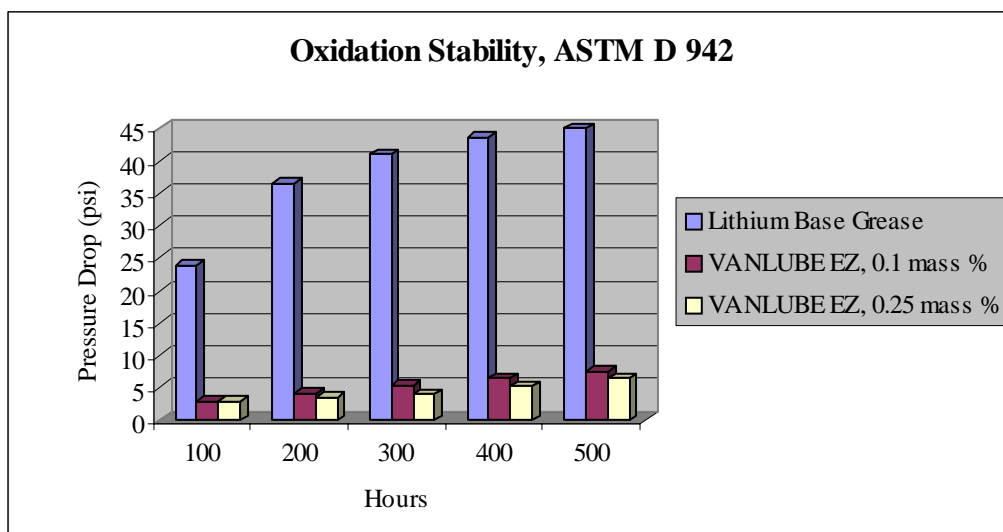


Figure 1. Antioxidant properties of VANLUBE EZ in lithium base grease.

Performance Properties in ISO 220 Oil Blend

<u>Properties</u>	<u>VANLUBE EZ</u>	<u>VANLUBE AZ</u>
Treat Rate (Mass Percent)	1.75	3.00
Zinc Content (ppm)	1,880	1,875
Copper Corrosion, ASTM D 130, 24 hours at 121°C	1b	1b
Four-Ball EP, ASTM D 2783		
Weld Load (kgf)	315	250
LWI (kgf)	44.0	38.8
Four-Ball Wear, ASTM D 4172		
1800 rpm, 54°C, 1 hour, 20 kgf (mm)	0.42	0.41
1200 rpm, 75°C, 1 hour, 40 kgf (mm)	0.51	0.51

Storage and Handling Suggestions

Unloading pumping temperature:	30°C
Unloading maximum temperature:	60°C
Storage temperature:	Room temperature

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