Vanderbilt Chemicals, LLC; provides a variety of unique additives to formulators across all segments of lubrication. This brochure provides information on a new antioxidant commercialized in 2016, VANLUBE[®] 407 Lubricant Additive.

INTRODUCING VANLUBE® 407

VANLUBE® 407 is a new liquid proprietary antioxidant. This unique product provides exceptional antioxidant performance in PDSC (ASTM D6186) and RPVOT (ASTM D2272) at very low treat rates and low costs. **VANLUBE® 407** has USDA HX-1 approval by NSF for use in food grade lubricants and also carries kosher approval.

TYPICAL PROPERTIES

PROPERTY	RESULT
Nitrogen, %	6.2
Sulfur, %	15.8
Density at 25 °C, Mg/m³	1.02
Flash Point, °C, (ASTM D6450)	212
Moisture, %	0.02
Viscosity @ 100 °C, mm²/s	23.7

KEY ADVANTAGES

- Powerful antioxidant for boosting RPVOT and PDSC performance
- Cost savings
- Liquid product / simple to handle
- Great stability / solubility
- NSF and kosher approval
- High concentration of active ingredients
- Global registration

PERFORMANCE

Turbine Oil

Antioxidant Performance Comparison



0.1 % rust inhibitor, 0.05 % corrosion inhibitor, 0.5 % antioxidant

When used in Group I, II and III oils, **VANLUBE® 407** provides outstanding PDSC and RPVOT results compared to other antioxidants.

Improve Oxidation Control while Reducing Sludge

Improve Oxidation Control while Reducing Sludge



VANLUBE® 407 as a top treat to a conventional turbine package, at just 0.2 % treat rate in a Group II ISO 32 base oil, can improve oxidation control in RPVOT while reducing sludge.

Grease

VANLUBE® 407 PDSC Performance in Commercial Grease



Adding **VANLUBE**[®] **407** at 0.6 % to three commercial greases with different thickeners significantly raises the PDSC results at various temperatures.

Compressor Oil

Group V Based Compressor Oil Top Treated with VANLUBE® 407



Top Treating Antioxidant at 0.2 %

Adding **VANLUBE**[®] **407** at 0.2 % in a Group V based commercial compressor oil raises the PDSC result by nearly an hour and performs better compared to other alternatives.

COST SAVINGS

VANLUBE® 407 vs. APANA in Group II ISO 32



*All formulations include 0.1 % rust inhibitor and 0.05 % corrosion inhibitor

VANLUBE® 407 may allow a 30 % treat rate reduction compared to APANA for equal performance in the PDSC oxidation test.

APPLICATIONSTURBINE OILFOOD GRADE OILCOMPRESSOR OILENGINE OILGREASEHYDRAULIC

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INTRODUCING VANLUBE® 407 LUBRICANT ADDITIVE

