

ConocoPhillips Tacna® HD Grease NLGI Grade 2

Category : Fluid , Lubricant , Lithium Gellant , Organic Soap Gellant

Material Notes:

Tacna HD is a premium quality, adhesive, extreme-pressure (EP) lithium complex grease developed for the lubrication of heavily loaded construction, mining and industrial equipment. It also is recommended for use as a chassis grease for heavy mobile equipment. It is formulated to provide long service life in severe service applications. Tacna HD is manufactured with high-quality, high-viscosity base oils and a lithium complex soap thickener. It is fortified with extreme-pressure and antiwear additives, rust and oxidation inhibitors, and a tackiness additive. It has excellent oxidation resistance, high load-carrying capacity for excellent wear protection, and protects metal parts against rust and corrosion. It has excellent adhesion to bearing surfaces for improved retention and resistance to water washout, and has excellent resistance to structural breakdown even under severe operating conditions. Applications: Heavily loaded plain and rolling-element bearings in industrial and off-road equipment Chassis parts on heavy mobile equipment Construction equipment Dredging equipment Marine deck equipment Offshore drilling equipment Rock quarry equipment Features/Benefits: High load-carrying capacity Excellent shock-load resistance Excellent oxidation resistance Adhesive to metal surfaces High shear stability Protects against rust and corrosion Excellent resistance to water washout Information provided by ConocoPhillips.

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http://www.lookpolymers.com/polymer_ConocoPhillips-Tacna-HD-Grease-NLGI-Grade-2.php

Physical Properties	Metric	English	Comments
Density	0.857 g/cc	0.0310 lb/in ³	
Viscosity Measurement	87	87	Viscosity Index (Base Oil Property)
Saybolt Viscosity at 100°F	2150 SUS	2150 SUS	Base Oil Property
Saybolt Viscosity at 210°F	129 SUS	129 SUS	Base Oil Property
Kinematic Viscosity at 40°C (104°F)	400 cSt	400 cSt	Base Oil
Kinematic Viscosity at 100°C (212°F)	26 cSt	26 cSt	Base Oil
Oxidative Stability	100 hour @Pressure 0.304 MPa	100 hour @Pressure 44.1 psi	Pressure Drop; ASTM D942

Mechanical Properties	Metric	English	Comments
Four Ball Extreme Pressure, Weld Load	315 kg	695 lb (mass)	ASTM D2596
Four Ball Wear	0.450 mm	0.0177 in	Scar Wear; ASTM D2266
Penetration P(60), 1/10 mm	265 - 295	265 - 295	ASTM D217
Timken Test	24900 g	55.0 lb	ASTM D2509

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	177 °C	351 °F	
Minimum Service Temperature, Air	-12.0 °C	10.4 °F	
Dropping Point	>= 260 °C	>= 500 °F	

Descriptive Properties	Value	Comments
Color	Red	
Copper Corrosion	1b	ASTM D4048
Rust Test A&B	Pass	
Soap Type (Thickener)	Lithium Complex	
Texture	Smooth/Tacky	
Water Washout	2%	ASTM D-1264, @ 175°F

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