

## L-428 Tough Tac Grease

Kendall L-428 Tough Tac Grease is a premium quality, extreme-pressure lithium complex soap grease designed specifically for use in heavy-duty off-road equipment. It is specially formulated to provide outstanding protection under wet, muddy, slow speed, high load, high temperature, and heavy shock-load conditions typically encountered in off-road and general construction service. It is fortified with 3% molybdenum disulfide ("moly") for extra protection against heavy or shock loading.

L-428 Tough Tac Grease stays put, will not soften when worked and resists water washout. It provides excellent rust and corrosion protection and is suitable for use over a wide range of operating temperatures. It also meets NLGI GC-LB performance requirements for the lubrication of automotive wheel bearings and chassis components.

### ***Applications***

- Construction, mining and other heavy-duty mobile equipment operating over a wide temperature range
- Underground mining equipment including belt conveyors, hoists, cutting machines, loaders, and continuous and long-wall miners
- Chassis parts, wheel bearings, and fifth wheels on heavy-duty and fleet equipment
- Heavy-duty industrial equipment requiring an adhesive grease with good extreme-pressure and antiwear properties and excellent resistance to water washout

L-428 Tough Tac Grease meets or exceeds the requirements of:

- NLGI GC-LB

### ***Outstanding Features***

- Excellent extreme pressure and antiwear properties
- Contains "moly" for extra protection against heavy or shock loading
- Excellent thermal stability and oxidation resistance
- Excellent rust and corrosion protection
- High resistance to water washout
- High Timken OK Load rating
- Meets NLGI GC-LB performance requirements

**Premium Quality,  
Extreme-Pressure,  
Lithium Complex  
Grease With  
3% Moly For Off-  
Road Equipment**

**Customer Service  
Number:  
1-800-368-7128**

**Technical  
Hot line:  
1-800-368-1267**

**E-mail address:  
*kendallmotoroil@  
conocophillips.com***

**L-428 Tough Tac Grease  
Typical Properties**

<b>NLGI GRADE</b>	<b>2</b>
Penetration, ASTM Worked @ 25°C (77°F)	288
Pounds per U.S. Gallon @ 15.6°C (60°F)	7.50
Dropping Point, °C (°F)	306 (583)
Color	Moly Gray
Thickener	Lithium Complex
Filler, Moly, wt %	3
Texture	Very Tacky
Four-Ball EP, ASTM D2596, Weld Load, kg	500
Four-Ball Wear, ASTM D2266, Scar Diameter, mm	0.40
Oxidation Stability, ASTM D942, 100 hours,	
Pressure Drop, psi (kPa)	3 (20.7)
Rust Prevention, ASTM D1743	Pass
Timken OK Load, ASTM D2509, lb	70
Water Washout @ 175°F, ASTM D1264, wt % loss	4
<b>Base Oil Properties</b>	
Viscosity,	
cSt @ 40°C	145
cSt @ 100°C	14.2
SUS @ 100°F	762
SUS @ 210°F	77
Viscosity Index	95
<b>Usable Temperature Range,</b>	
°F	-10 to 400
°C	-23 to 204

Due to continual product research and development, the information contained herein is subject to change without notification.

© 2005 ConocoPhillips Company. Kendall and the Kendall logo are trademarks of ConocoPhillips Company or one of its subsidiaries.