

# OIL TECH

*The Lubrication Specialists*

## TECHNICAL DATA SHEET

### OIL TECH CALSUL EXTREME MOLY5

#### PRODUCT DESCRIPTION

**OIL TECH CALSUL EXTREME MOLY5** is the highest performance extreme duty grease engineered to protect mining and earth moving mobile and stationary plant, operating under the most extreme and hostile conditions around the globe.

Key to the performance of **OIL TECH CALSUL EXTREME MOLY5** is the Calcium Sulphonate Complex thickener, which provides inherent Extreme Pressure properties not achievable with conventional Lithium Complex thickeners popularly used in the mining industry today. Additionally, the Calcium Sulphonate Complex thickener technology imparts superior resistance to water washout and corrosion protection (in particular salt water corrosion) compared to conventional grease chemistries, with up to 50% improvement over Lithium Complex thickeners.

**OIL TECH CALSUL EXTREME MOLY5** meets and exceeds Caterpillar's key requirements for all machines operating at maximum Load Factors, under extreme load conditions, frequent oscillations and subject to severe shock loading:

- Exceeds the guideline of 5% solid lubricants, which imparts added protection in conditions susceptible to severe impact i.e slamming
- Exceeds the Extreme Pressure performance 4-Ball EP Weld Point requirement of 620kg (ASTM D2596)
- Water washout resistance/ roll stability, comfortably meets requirements of +/-5% and conforms to the corrosion resistance requirements to ASTM B117

#### APPLICATION

**OIL TECH CALSUL EXTREME MOLY5** is applied to provide wear resistance under extreme ambient conditions (-10°C to +55°C) requiring high load carrying ability, resistance to galling and fretting corrosion as well as resistance to water washout and salt water corrosion.

**OIL TECH CALSUL EXTREME MOLY5** can be used with absolute confidence in heavily loaded pin joints, in slow/medium speed heavily loaded bearings and high impact (shock load) applications encountered in mobile plant such as track type tractors, backhoe loaders, excavators and off high way trucks. The median particle size of the lubricating solids used in the grease formulation is ~3µm, rendering it suitable for use in off-highway wheel bearing applications, joints and other tight clearance moving components. The product is additionally suited to severe duty applications in industries such as drilling, steel & metal processing, paper, agriculture, marine ect.

**OIL TECH CALSUL EXTREME MOLY5** is formulated with a tackiness enhance that allows the grease to adhere to vertical surface, or surfaces in motion where the grease resists “fling-off”. Grease adhesion is a key requirement in applications such as swing gears in excavators; where the grease firstly needs to remain in place to avoid lack of lubrication, and secondly where the Extreme Pressure (EP) performance needs to be capable of protecting the heavily loaded gear teeth in order to extend component life.

**OIL TECH CALSUL EXTREME MOLY5** is available in an NLGI #1 consistency for applications in centralised lubrication systems where lower ambient temperatures (-10°C to 30°C) may impede grease pumpability.