

LOGGING INDUSTRY: MOLY VS NON-MOLY

By David Eder.

Have you ever passed the lumber section in Home Depot or Lowes and wondered: Where did that piece of wood come from? It is fascinating when you think all of that wood started out as a tree with the bark and branches. And now you are staring at a piece of perfectly planed and graded finished board.

Like every industry, there are several processes needed and massive pieces of heavy machinery used to create the finished product. On the harvesting side alone, the equipment needed is the saws, fellers, bunchers, processors, loaders, trucks, and even yarders. With these different monster machines comes different

OEM's and various specifications they call for on their equipment. For example, John Deere and Brandt do not call out the need for molybdenum disulfide, while Caterpillar and Tigercat call for a minimum of 5% moly in their grease.

Due to the harsh demand on equipment today, Paragon 3000 or Moly Paragon are the choice for successful operations. These products are designed to manage the sometimes wet, high heat, extreme pressure environments that this equipment is subjected to everyday.

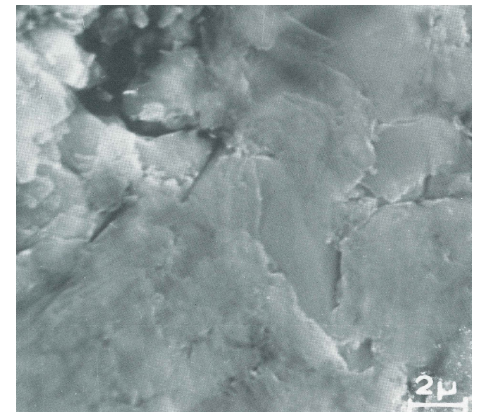
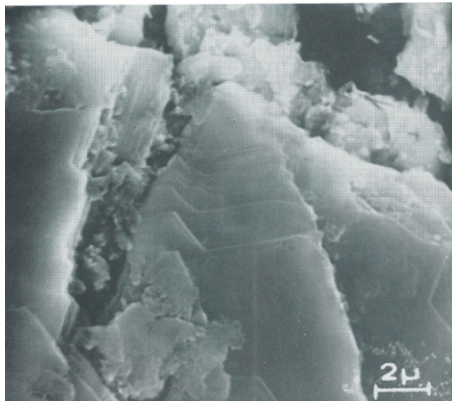
WHAT IS MOLY AND WHAT ARE THE BENEFITS?

Paragon 3000 and Moly Paragon is an extreme pressure, multi-purpose, calcium-lithium complex base grease, formulated for industries with extreme conditions. Moly is chemically inert, will withstand 500,000 PSI, and not be affected by high heat. It is proven to reduce friction, lower operating temperatures, prevent metal to metal contact, increase load carrying capacity, and serves as a preventive antioxidant.

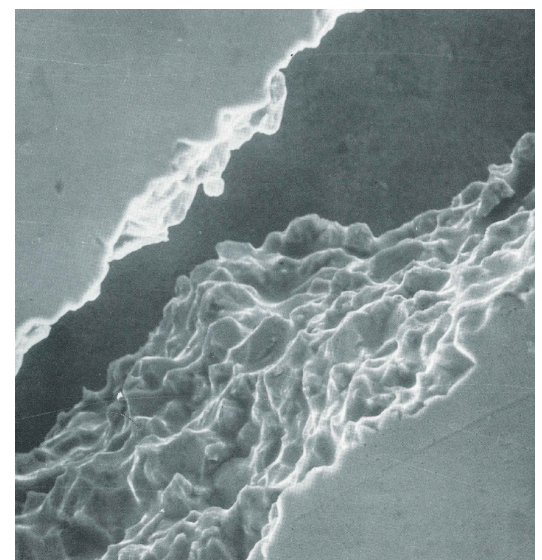
All metal surfaces have peaks and valleys that create friction when they interact with each other. Moly molecules plate out on metal up to .002 inches thick. Moly platelets adhere to the metal as the surfaces interact with each other.

The benefits of Moly in lubricants are reduction of energy consumption, extended lube cycles, reduced downtime, extended equipment life, and the most important for any equipment owner, reduced maintenance costs. With the hourly rate of mechanics and the cost of parts climbing to new heights every year, the instant savings of using Moly Paragon begins as soon as it is pumped into your equipment.

In the logging industry, moly is preferred on certain equipment, as it has been proven that moly in grease increases the life of pins and bushings. The pins and bushings can develop odd wear patterns if not properly lubricated. These wear patterns can be attributed to extreme loads on pins only at certain times, while the pins perform without a load at other times. For example, a loader in the logging industry uses a grapple of sorts to pick up multiple logs at a time to load them. The pins these grapples rotate on are under extreme pressure when the grapple is closed around logs. Then when they load the logs, the extreme pressure is gone. The pins are constantly in the



Moly Molecules plate out on metal up to .002 inches thick. Moly platelets adhere to the metal as the surfaces interact with each other.



All metal surfaces have peaks and valleys that create friction when they interact with each other.



same rotation with a load then without a load. The moly helps the pins stay properly lubricated under the load.

EXTREME PROTECTION

Moly Paragon has a Timken OK Load rating of 80-pounds, while Paragon 3000 boasts a Timken OK load rating of 100-pounds minimum. This gives the needed protection for equipment where repeated heavy shock and loads like those experienced in the logging industry occurs, as well as protection at lower ends. Because of the adhesive and cohesive nature of Paragon 3000 and Moly Paragon, it is able to resist squeezing out and thinning under severe loads – perfect for logging, construction, steel mills, and roller bearings. Another strength of Moly Paragon is its unsurpassed Four-Ball Wear Scar test rating of .25mm proving the grease’s ability to protect against wear. This is one area that Moly Paragon outperforms Paragon 3000 and its .33mm rating (which is still better than all other greases on the market).



WATER RESISTANCE

One of the most impressive features of Paragon 3000 and Moly Paragon is their ability to resist water contamination. This includes both fresh and saltwater. Paragon 3000 and Moly Paragon excel when working in wet conditions with an industry leading 0.65% water washout rating. There is no other grease on the market that will do as well or even come close to those standards. Not only will it resist being washed out of pins and bearings, but it also displaces water from metal surfaces. Paragon 3000 and Moly Paragon also will retain extreme pressure protection in the presence of up to 20% water, keeping all its properties present.



Considering how wet most logging operations are, this feature becomes a great benefit to the logging outfit that trusts their grease to TRC. In addition to logging, operations which are always in the presence of water, such as oceanic-based industries, dredging, docks, fishing vessels, hydro plants, and many others. These include oil and gas platforms, commercial shipping or fishing vessels and hydro plants.

In addition to oceanic-based businesses, many others can also benefit from the incredible water resistance. For example, in water treatment facilities, paper mills, and operators whose equipment is kept in the elements year-round.

OPERATING TEMPERATURES

Another benefit of any great grease is its ability to withstand heat. The formulation of Paragon 3000 and Moly Paragon offers this protection with a dropping point of an industry leading 630°F. Not only this, but it also has a recommended operating temperature of 570°F.

Paragon 3000 and Moly Paragon has a dropping point 25% higher and an operating temperature that is over 50% greater than the average competitor, giving you the e peace of mind, your equipment is and will always be protected.

THE MOLY OF THE FUTURE IS HERE

Paragon 3000 has been the best grease on the market for several decades! Now with the addition of Moly Paragon, we have the best in Moly grease. With the unparalleled protection of Moly Paragon, you can be assured you are using a top-quality product, allowing you to grease less, decrease downtime of equipment, and maximize production.

