



Almasol® Worm Gear Lubricant (460)

Vital Earth Resources – Big Sandy, Texas

Bouldin & Lawson Model #17003

- Operating temperatures dropped 30 to 40 degrees
- Eliminated downtime

Customer Profile

Vital Earth Resources is a major producer of quality soils and fertilizers, both organic and chemical. They use LE products almost exclusively and have since the startup of the company in 1983. Prior to that time, the owners used LE products in another company, Luckwood, Inc. Luckwood, an excavating and paving business, was incorporated in 1977, and in the '80's was named a Fortune 500 company. One of the founders of Luckwood and Vital Earth was the late Buck Hammer. Buck's sons and daughter-in-law, Scott, Terrie, and Kerry Hammer currently operate and manage Vital Earth Resources. Scott, President, is a true believer that LE Products do protect their very expensive equipment. Their equipment includes a digester (a 120' long composting vessel), tub grinders, screens, hammer mills, conveyors, dump trucks, tractor/trailers, loaders, etc.

Their customer base is nursery and professional landscapers in Texas, Oklahoma, Arkansas, Louisiana, Mississippi and Tennessee.

Application

Vital Earth use a Bouldin & Lawson Model #17003 for packing and bagging product for shipment.

Challenge

Right angle drive boxes were running extremely hot, 195°-215°F (91°-102°C). Late in the day with ambient running around 110°-116°F (43°-47°C), these units would over amp and shut down.



LE Solution

Walter Morman, LE lubrication consultant, recommended Almasol® Worm Gear Lubricant (460). Almasol 460 is designed to protect worm gears and bronze parts. It contains Almasol, LE's exclusive wear-reducing additive, and other high quality additives to give excellent lubricity and film strength along with high load carrying ability.



Results

Since the conversion to Almasol Worm Gear Lubricant, the operating temperatures have dropped to 165°-175°F (74°-79°C), that is 30-40°F cooler than with the commercial grade lubricant.

Lost production is valued at \$3,750 per hour on this unit. Previously, approximately 1½ hours were lost at least once a week during the months of July, August and September. Since the conversion to Almasol Worm Gear Lubricant, there has been no downtime. That is a savings of approximately \$73,125 in a two year period!

BJ Borkja, maintenance engineers says, "Put LE in your equipment and you can go on home and sleep at night!"

Other Products Used

- Almasol® Pure Mineral Gear Lubricant (401)
- Almasol® Vari-Purpose Gear Lubricant (607-608)
- Monolec® Gear Lubricant (703-704)
- Almaplex® Industrial Lubricant (1275)
- Almaplex® Ultra-Syn Lubricant (1299)
- Wirelife™ Monolec® Penetrating Lubricant (2001)
- Monolex® Penetrating Oil & Lubricant (2059)
- Nutrigent Industrial Cleaner (2100)
- L-X® Heavy-Duty Chemical Supplement (2300)
- Almagard® Vari-Purpose Lubricant (3751-3752)
- Monolec® Multiplex Lubricant (4622)
- Pyroshield® Syn Open Gear Grease (5180 & 5182)
- Monolec Ultra® Engine Oil (8800)
- Syntemp® Synthetic Lubricant (9102)

Thank you to Scott Hammer, Terrie Hammer, Kerry Hammer, BJ (Donald) Bjoachier, maintenance engineer, and to Walter Morman, LE lubrication consultant (pictured), for providing the information used in this report.



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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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