



Monolex[®] Penetrating Oil & Lubricant (2059)

Merritt's Gravel, Inc. – Chapel Hill, N.C.

Caterpillar D-6 Bulldozer

- Easily removed rusted manifold bolts

Customer Profile

Merritt's Gravel, Inc., is a quarry and landfill for construction waste. The owner, Tony Merritt, uses various heavy equipment to dig and load Chapel Hill Granite (a weathered granite rock that is only found in this area). The stone crushes easily and is used in various applications such as foundations on buildings, roads, driveways and golf courses. It makes an excellent foundation material and is very permeable to water. Merritt's Gravel has been in business for 43 years and an LE customer for more than 42 years. Tony uses every LE Lubricant he can in his operation and personal vehicles. Tony's dad started using LE lubricants shortly after they opened. He was losing bearings on one of his machines and the local LE consultant at that time recommended an LE grease and the problem was solved. They have been an LE customer ever since.

Application

Merritt's Gravel, Inc. operates a Caterpillar D-6 bulldozer.

Challenge

A few years ago, Tony's Cat D-6 bulldozer had some age on it and the manifold was beginning to rust through in various places. The manifold needed to be replaced as it was leaking exhaust in several places. Tony performs most all of his mechanical work except heavy duty rebuilding. He knew that removing the manifold would present a difficult challenge as the bolts were very rusty and worn from being in use for several years. He just knew one or more of the bolts would break off when he tried to remove them. Tony put off performing the installation for several months.



LE Solution

The local LE lubrication consultant came by for his regular visit and Tony mentioned the potential problem with the manifold. The Lubrication Consultant gave Tony a can of Monolex[®] Penetrating Oil & Lubricant (2059) and told him to spray it on the manifold bolts and other places he needed a penetrating oil, and to tell him the story about his success next time he came by.

Results

Tony took him up on his offer. He liberally sprayed the manifold bolts with the Monolex 2059 and let it soak for a day. He sprayed them again the next day and let them soak for about an hour. Tony then took his socket wrenches and with very little effort, was able to successfully remove them all with no broken bolts. He had his story to tell when the LE consultant returned.

Tony has been using Monolex 2059 for all his penetrating oil needs ever since. He is rebuilding two Northwest cranes and using Monolex 2059 in a 5-gallon bucket to loosen rusty and frozen nuts and bolts. One, a model 28D, is almost finished. They have just started a rebuild on a model 190D.



Other Products Used

- Duolec® Vari-Purpose Gear Lubricant (1605-1606) in gear oil applications
- Wirelife® Monolec® Penetrating Lubricant (2001) on all cables and wire ropes
- L-X® Heavy Duty Chemical Supplement (2300) is used in all gasoline engines
- BTU+ Total Treat (2410) and BTU+ Power Supplement & Cleaner (2420) Diesel Fuel Improvers are used in all diesel fuel

- Almagard® Vari-Purpose Lubricant (3751-3752) is used all grease applications
- Monolec® Power Fluid (7500) is used in transmissions
- Power Transmission Fluid (7510 & 7530) is used for CAT applications
- Monolec® GFS Engine Oil (8430 & 8450)
- Monolec Ultra® Engine Oil (8800)
- Oil Safe containers to store and dispense lubricants



Northwest 28D crane being restored and rebuilt with the help of Monolex 2059



Thank you to Tony Merritt, owner (pictured left), and to Jeff Boyles, LE lubrication consultant (pictured right), for providing the information used in this report.



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