

TECHNICAL BULLETIN ON MILITEC-1 LUBRICATION IN FORKLIFT TRANSMISSIONS

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This report comes from the warehouse/distribution center of a large supermarket chain in North Carolina.

This company started using Militec-1 last April for the transmissions of its forklift trucks that operate in its freezer. These are Crown forklifts model 30RDTT. Crown is currently the number one manufacturer of narrow aisle electric trucks. The motor is mounted in a vertical position on the gearbox. To lubricate the gears, a cam on the axle pumps oil from the bottom and delivers it on top of the gears so the oil can flow down around the gears.

Because of the unusual placement of the motor directly on top of the gears, and the built-in function of the transmission to accept sudden changes from forward to reverse and from reverse to forward, there is a tremendous load applied to the gears and metal is thereby pressed hard against metal. The wear from this is considerable.

To remove the metal shavings that are created by the wear, the drain plug for the transmission fluid is magnetized. The shavings are attracted to the plug which, when removed, takes the shavings with it. The amount of wear is easy to ascertain by examining the amount of shavings on the plug.

Two ounces of Militec-1 was added to the transmission's quart of oil every 500 hours (every second oil change). Over the past 10 months, the benefit of Militec-1 was seen mainly by the reduced wear evidenced by the shavings on the plug. It was estimated that the shavings were only half of the amount that was usually found on the plugs.