



**PETRON
PLUS™
FORMULA 7**



APACHE HELICOPTER

- ▶ **HELPED FREE-UP 30 CAL. MACHINE GUNS FEED**
- ▶ **HELPED OVERHEATING PROBLEM ON MAIN GEARBOX**
- ▶ **TEST'S CONDUCTED ON PREVIOUS NLGI # 000 GREASE HAD 3 FAILURES OUT OF 5, PETRON PLUS FORMULA 7 GREASE HAD ZERO (0) FAILURES.**

CUSTOMER TESTIMONIAL

CUSTOMER & TEST PROFILE

The McDonnell Douglas Corporation (MCD) Helicopter Division in Mesa, Arizona, makers of the now infamous APACHE HELICOPTER, have called on us for help. They are using the Petron Plus Industrial Super Lube on cables and chains, and especially on an ammunition feed to the 30 cal machine guns mounted on board. The feed was jamming previously and nothing they used would stop it until Petron Plus Industrial Super Lube!

Additionally, the gearboxes are overheating significantly while the craft hovers, damaging its operational tactical flexibility. MCD has ask us to help with this problem, along with a formal request from the US Army. The current NLGI # 000 grease is not providing the protection needed. The craft flies 2 hours and requires 14 hours of maintenance. MCD believes we can solve the problem, after having studying the effects of the Petron Plus Industrial Super Lube on other tough-to-solve problems.

CUSTOMER TESTS & REPORTS

Testing got underway at the NASA Lewis Research Center (now John Glenn), in Ohio. They ran five (5) tests on the current NLGI # 000 grease that they have been using, and had three (3) failures.



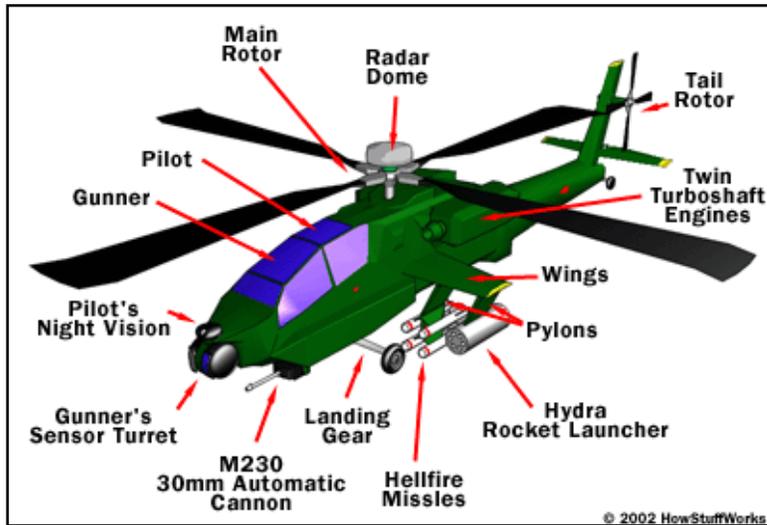
They then tested a special Petron Plus Formula 7 NLGI # 000 grease formulated especially for this application. They ran five (5) test on our special grease with zero (0) failures.

The US military is already looking at the product (and others) for solving other similar problems in other helicopters and ground support equipment being damaged by the Saudi environment, and Desert Storm.

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The Apache helicopter is a revolutionary development in the history of war. It is essentially a flying tank -- a helicopter designed to survive heavy attack and inflict massive damage. It can zero in on specific targets, day or night, even in terrible weather. As you might expect, it is a terrifying machine to ground forces.



The Apache's amazing flight systems, weapons systems, sensor systems and armor systems. Individually, these components are remarkable pieces of technology. Combined together, they make up an unbelievable fighting machine -- the most lethal helicopter ever created.

At its core, an Apache works pretty much the same way as any other helicopter. It has two rotors that spin several blades. A blade is a tilted airfoil, just like an airplane wing. As it speeds through the air, each blade generates lift.

The main rotor, attached to the top of the helicopter, spins four 20-foot (6-meter) blades. The pilot maneuvers the helicopter by adjusting a swash plate mechanism. The swash plate changes each blade's pitch (tilt) to increase lift. Adjusting the pitch equally for all blades lifts the helicopter straight up and down. Changing the pitch as the blades make their way around the rotation cycle creates uneven lift, causing the helicopter to tilt and fly in a particular direction.

As the main rotor spins, it exerts a rotation force on the entire helicopter. The rear rotor blades work against this force -- they push the tail boom in the opposite direction. By changing the pitch of the rear blades, the pilot can rotate the helicopter in either direction or keep it from turning at all. An Apache has double tail rotors, each with two blades.

