

A lumber mill in New Hampshire found Militec-1 could save one day of fuel per week in its stationary Caterpillar diesels used to power the plant. Other companies that have monitored fuel use in stationary diesels have **found savings to average around 10%**. [See detailed report.](#)

## **TECHNICAL BULLETIN ON MILITEC-1 LUBRICATION IN A CATERPILLAR DIESEL**

February 25, 1992

### **Background:**

This report comes from a lumber mill in northwest New Hampshire. One of the mill's two Caterpillar diesel engines was treated with Militec-1. The treated engine runs 24 hours per day, 7 days a week and is the major source of electric power to operate the mill's equipment and lighting system. The second Caterpillar diesel engine, which was not treated with Militec-1, is used 8 to 9 hours per day to handle peak demand. Both of these engines are supplied from the same fuel tank.

### **Specifications:**

The treated Caterpillar engine is Model 3412, 12 cylinders, 650 hp with a 15-gallon sump. It was last rebuilt by Caterpillar approximately 6 months ago. The other Caterpillar engine is Model 3508, 8 cylinders, 970 hp with a 60-gallon sump. Both engines use Caterpillar 15W 40 oil.

### **Application:**

One gallon of Militec-1 was added to the 15 gallons of oil.

### **Results:**

The results of the Militec-1 application were measured at the end of each of the two weeks that the engine has been operating with the product. The records for the fuel tank which supplies the two diesel engines show a very consistent history of fuel consumption since the load has remained the same. Over a number of years, the average weekly fuel consumption has been 4,610 gallons with a variation of only about 10 gallons. At the end of each of the two weeks, when the weekly fuel consumption rate was measured, the reduction in consumption was approximately 380 gallons. This 8.25 percent reduction is considerable in that only one of the two engines using the measured fuel had been treated with Militec-1. The cost of the one gallon of Militec-1 was easily covered in less than one week of operation as the cost of diesel fuel is about 65 cents per gallon.

### **Aftermath:**

The lumber mill has purchased additional Militec-1 so the second diesel engine and the other mill equipment can also be treated.