

4934 ALL PURPOSE HYDRAULIC OIL

KEARSE MANUFACTURING MFG, Olar, South Carolina

Coe Lathe • SIC 2435 Hardwood Veneer & Plywood

- ⇒ **30 years of service with Lubrication Engineers products**
- ⇒ **Over 50% reduction in make up oils in hydraulic systems**
- ⇒ **No pump failures using LE hydraulic oils**

CUSTOMER PROFILE

Kearse Manufacturing is a family owned hardwood veneer business. They manufacture veneer that is used in various industries such as flooring, furniture and door manufacturing. They have been in business for 80 years, and an LE customer for 30 years.



Coe hydraulic system

APPLICATION

Kearse MFG uses a Coe M263 Lathe to cut the veneer. It is critical that veneer is cut to an exact thickness. There can only be a .005 variance in thickness.

AREA OF INTEREST

In 1998, the lathe went through an upgrade, which included adding hydraulic systems for the dual spindles. Based on his experience with LE product in their John Deere Loader, Mill Superintendent Bill Thomas decided to use LE 4934 All Purpose Hydraulic Oil.

LE SOLUTION

4934 All Purpose Hydraulic Oil offers excellent rust protection, strong anti-wear properties and

superior thermal stability. It is non-foaming in service and provides high oxidation resistance. 4934 is for hydraulic systems operating in a highly contaminated environment, or where high lubricant consumption is a concern.

CUSTOMER COST SAVINGS

LE 4934 All Purpose Hydraulic Oil was placed in service in the main hydraulic system. The system operates ten hours a day, five days a week. The total oil in service is approximately 150 gallons. In the early part of 1999, a design flaw in the spindle lubrication became evident. This resulted in Kearse purchasing an additional drum of 4934 because of the make up oil needed each time they had

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to work on the spindles. Since 2001, this problem was corrected after many hours of investigation. Now with nine years in service, Kearse has not replaced any seals, or valve "O" rings, and only four drums of oil have been used for make up oil.

OTHER PRODUCTS USED

Another application that has had equal success is the deck saw. The hydraulic pump drives a hydraulic motor on the saw and holds down clamps. Bill states this hydraulic unit would run hot with the commercial grade oil. He installed 6120 MONOLEC Hydraulic Oil in

1998 and has not lost a hydraulic pump or motor on this unit. Very little make up oil has been needed.

Kearse MFG also uses:

- 1150 TRANS-ALL EHP Automatic Transmission Fluid
- 607 ALMASOL® Vari-Purpose Gear Lubricant
- 1275 ALMAPLEX® Industrial Lubricant
- 6404 MONOLEC® R&O Compressor/Turbine Oil.
- 6120 MONOLEC® Hydraulic Oil



Deck saw

Lubrication Engineers would like to thank Mill Superintendent Bill Thomas, and LE Lubrication Consultant Helmut von Schweinitz for the information provided to prepare this report.



Helmut von Schweinitz