

Hydraulic System Conversion to Lubritherm All-Temp Hydraulic Fluid

For best results when converting to Lubritherm All-Temp Hydraulic Fluid, ensure the following:

- Thoroughly clean the hydraulic system so that it is free of contamination from previous fluids.
- New filters (non-paper).
- Compatibility of paint, plastics, seals and elastomers.
- Standard Conversion or Ideal Conversion Procedures are followed as outlined hereunder.

Standard Conversion to Lubritherm All-Temp Hydraulic Fluid

Installation of Lubritherm hydraulic fluid into systems that previously contained petroleum-based hydraulic fluid:

1. Drain hydraulic oil reservoir and all lines, pumps, motors, rams, controllers, etc.
2. Change-out filter(s), replace with non-paper filters.
3. Fill entire hydraulic system with Lubritherm All-Temp Hydraulic Fluid. Pay special attention to the pumps, rams, hydrostatic motors, etc. which are not self-filling but need to be manually charged.
4. Run hydraulic system for a suggested 3 hours, while periodically skimming the oil off the Lubritherm in the reservoir with old newspapers or wet-vacuum until the oil, which floats to the top, is all gone.
5. Top-up hydraulic system with Lubritherm, and check system monthly as a maintenance procedure.
6. Replacement of Lubritherm will generally only be needed due to accidental spillage from blown hoses, etc., resulting in significantly reduced operational costs. However, as a good maintenance procedure it is recommended that Lubritherm be changed out every 5 years.

Ideal Conversion to Lubritherm All-Temp Hydraulic Fluid

Installation of Lubritherm hydraulic fluid into systems that previously contained petroleum-based hydraulic fluid utilising the recommended flush procedure below for best results:

- a. Drain previous fluid from the equipment.
- b. Replace fluid filters with non-paper filters.
- c. Fill the system with Lubritherm hydraulic fluid. Run or circulate under minimum load for 24 hours. Lubritherm will mostly clean varnish and sludge build-up formed from petroleum-based hydraulic fluids.
- d. Thoroughly drain the Lubritherm hydraulic fluid from the system while still warm.
- e. Inspect the fluid filters and replace as needed.
- f. Fill the equipment with fresh Lubritherm All-Temp hydraulic fluid and begin normal operation.

Contact LubeCorp technical reps. for assistance and detailed information on conversion procedures.

see Page 2 for Product Compatibility

Compatibility to Lubritherm All-Temp Hydraulic Fluid

Other Hydraulic Fluids: Lubritherm All-Temp Hydraulic Fluid is not compatible with other hydraulic fluids. Use the Standard or Ideal Conversion procedures outlined.

Paints: Lubritherm shows some solvency for common oil-based paints but minimal solvency for many epoxy-based paints. If interior surfaces of hydraulic system components are painted, it may still be possible to convert to Lubritherm.

- Extra care should be taken to ensure that lifted paint trapped by the filter does not cause the pump to be starved of lubricant. Following the conversion, the painted surfaces should be carefully monitored for trends toward paint softening, lifting, and peeling. If paint removal does occur, frequent cleaning or replacement of filters may be required until the paint is completely removed.

Elastomers: Lubritherm Hydraulic Fluid is compatible with most elastomeric materials used in seals and gaskets. Below is a partial list of compatible elastomers:

- Buna N, Viton, Rubbers, Kalrez, Silicone, Hycar, Hypalon, Polysulfide, Fluoraz, Aflas, EPR, EPDM.

Because of the variations that can exist between elastomers in the same generic family, it is important to test the compatibility of specific elastomers that are to be used in a critical application.

Plastics: Lubritherm Hydraulic Fluid is compatible to most plastics. When in doubt, compatibility should be assessed for any plastic components (such as reservoir sight glasses) exposed to Lubritherm hydraulic fluid.

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