

THE THERMAL-LUBE

BIO-HYDRAULIC ADDITIVE

CONCENTRATE FOR **XL9525**

ISO 22-46 SERIES

XL4525

February 2026

XL4525 is a unique formulation that when applied correctly will treat Canola-based flush oil with hydraulic performance additives that are only compatible with **XL9525 series of Bio Synthetic Hydraulic Fluids** ranging from ISO VG 22-46.

XL4525 has been formulated with a carefully balanced combination of the most effective lubricating additives available on the market today. Our modern high speed manufacturing process allows these additives, to be permanently dissolved in a super-concentrated, highly-refined bio-based oil carrier.

*Thermal-Lube Inc. will not recommend nor guarantee compatibility of **XL4525** with any competitive or alternative product.*

APPLICATION PROCEDURE:

- Calculate the volumetric amount of Canola-based flush oil used in conjunction with **XL9525 Bio Synthetic Hydraulic Fluid** contained in the hydraulic system.
 - This amount may be determined either volumetric, or by FT-IR analysis.
- If the quantity of Canola-based flush oil is **more than 20%** (by volume) of the entire hydraulic system, then **STOP**. Do not proceed any further. This will require draining the entire hydraulic system and re-filling with **XL9525 Bio Synthetic Hydraulic Fluid**
- If the quantity of Canola-based flush oil is **less than 20%** (by volume) of the entire hydraulic system, then:
 - Start the equipment to circulate the oil without any pressure.
 - Add **XL4525** to the circulating hydraulic oil to a total of 20% (by volume) of the Canola-based flush oil component.
 - Keep circulating for 15 minutes without pressure.

Example:

- **XL9525/046:** 600L
- Canola Flush Oil:..... 50L (8.3% of 600L)
- **XL4525/932:**..... 10L (20% of 50L)
- TOTAL:..... 660L

TYPICAL SPECIFICATIONS

Product Code: XL4525	
Viscosity (cSt @ 40°C) (ASTM D-445)	30-45
Flash Point COC (°C)	220
Density (g/ml)	0.925
Colour	Clear / Amber



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