



HYDRAULIC

DATAFILE

VARIUM HVI ANTI-WEAR HYDRAULIC OILS

VARIUM HVI (high viscosity index) anti-wear hydraulic oils are designed to meet the all-season requirements of most major manufacturers and users of hydraulic equipment. The incorporation of polymer viscosity improvers dramatically enhance thermal and shear stability. These high V.I. oils are characterized by lower pour points that help ensure pump start-up at low temperatures, while maintaining oil viscosity at higher operating temperatures.

VARIUM HVI hydraulic oils are effective in reducing vane and gear pump wear in systems operating at high loads, speeds and temperatures. VARIUM HVI hydraulic oils are recommended in severe service hydraulic systems employing axial and radial piston pumps. VARIUM HVI premium anti-wear hydraulic oils provide extended oxidation protection.

VARIUM HVI hydraulic oils are characterized by outstanding oxidation resistance and corrosion protection; excellent thermal and hydrolytic stability, very low pour points, foam resistance and the demulsibility required of fluids used in modern high pressure hydraulic systems. They are non-corrosive to metal alloys, except those containing silver and are fully compatible with common seal materials. VARIUM HVI hydraulic oils are offered in four ISO viscosity grades.

TYPICAL PROPERTIES

IDENTIFICATION	Varium HVI 32	Varium HVI 46	Varium HVI 68	Varium HVI 100
Item Number	01049	01050	01052	01053
Viscosity Grade (ISO)	32	46	68	100
Viscosity, cSt @ 40C (D-445)	35.25	47.5	70.0	109.0
cSt @ 100C (D-445)	6.8	8.5	11.5	17.48
Viscosity, SUS @ 100F (ref.D-2161)	165	220	325	505
SUS @ 210F (ref.D-2161)	48.5	54.1	64.5	87.9
Viscosity Index, minimum(ref.ASTM D-2270)	155	155	155	155
Pour Point, deg.F	-45	-45	-40	-40
Flash Point, deg.F minimum	430	430	430	435
Color, ASTM (D1500, max)	1.5	1.5	2.0	2.0
Oxidation(D 943) Hrs to 2.0	5000+	5000+	5000+	---

VARIUM HVI hydraulic oils are formulated in suitable viscosity grades to meet or exceed the requirements for industrial and mobile hydraulic systems which call for:

- + Eaton-Vickers 35VQ25A for I-286-S, M 2950-S
- + DIN 51524, Part II
- + GM LS-2, LH
- + Bosch Rexworth
- + Sauer-Sunstrand
- + Denison HF-0 / T6C, HF-2
- + Cincinnati Milacron P-68,P-69,P-70
- + U.S. Steel 127,136,
- + Racine Model S
- + ANFOR NFE 48-603

PACKAGING: Available in 55 gallon steel drums, 275 gallon totes and bulk quantities.

Rev.03 2012

MAXIM OIL & CHEMICAL COMPANY
Fort Worth, Texas Phone (817) 293-4645
www.maximoil.com

Per OSHA Std. 29 CFR 1910.1200: Read and understand the Safety Data Sheet before handling or disposing of this material.

DISCLAIMER Information contained herein is believed to be correct and reliable. However, Maxim Petrochemical Corporation does not assume liability for it or for recommendations of our representatives inasmuch as conditions and methods of use are beyond our control. Further, we make no warranty, expressed or implied, of any kind regarding those products or their use and purchaser assumes all risks of use or handling either in accordance with directions or not.

MANUFACTURER DISCLAIMER The information and recommendations contained herein are, to the best of the knowledge and belief of Maxim Petrochemical Corporation, accurate and reliable as of the date issued. Maxim does not warrant or guarantee their reliability, and Maxim shall not be liable for any loss or damage arising out of use thereof. The information and recommendations are for the user's consideration and examination. Conditions of use are beyond Maxim's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risk of their use, handling, and disposal of the product(s). This information relates only to the product(s) designated herein and does not relate to its use in combination with any other material or in any other process.