

# HYDRAULIC HVI

ISO VG 15, 32, 46, 68, 100

## Product Description

Superior hydraulic fluids formulated with high quality Viscosity Index Improver (VII) to maintain viscosity in a broad temperature range. HYDRAULIC HVI provides excellent anti-wear protection and deposit formation resistance in high pressure and temperature conditions.

## Benefits

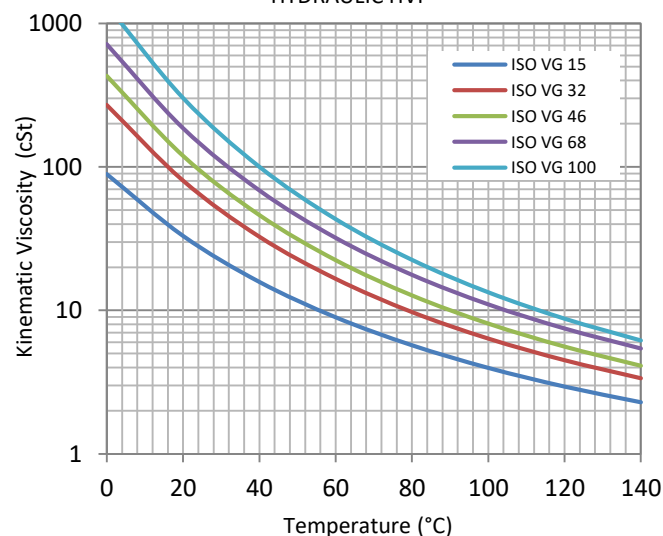
- Outstanding wear and corrosion protection helps extend component life, enable extra long oil and filter life.
- Outstanding thermal and oxidation stability helps reduce deposit and provide better system cleanliness resulting in cost and maintenance downtime reduction.
- High viscosity index provides excellent component protection over a wide range of temperature.

## Applications

- Suitable for use in mobile, construction and agricultural hydraulic systems.
- Designed for use in hydraulic systems subjected to wide variations in operating temperatures.

**KVT Diagram**

HYDRAULIC HVI



*The Moving Innovation* 

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## Typical Characteristics

Tests	Methods	Units	Results					
			15	32	46	68	100	
Kinematic Viscosity at 40 °C	ASTM D 445	mm <sup>2</sup> /s	15.82	32.63	46.10	68.65	100	
Kinematic Viscosity at 100 °C	ASTM D 445	mm <sup>2</sup> /s	3.975	6.369	8.105	11.00	13.38	
Viscosity Index	ASTM D 2270		156	151	150	152	133	
Density at 15 °C	ASTM D 4052	g/cm <sup>3</sup>	0.8355	0.8438	0.8482	0.8567	0.866	
Flash Point (COC)	ASTM D 92	°C	236	236	252	260	272	
Pour Point	ASTM D 97	°C	-45	-42	-39	-36	-36	
Copper Strip Corrosion	ASTM D 130		1a	1a	1a	1a	1a	
Foaming	Seq. I	ASTM D 892	ml/ml	20/0	20/0	20/0	20/0	20/0
	Seq. II	ASTM D 892	ml/ml	10/0	10/0	nil/0	nil/0	nil/0
	Seq. III	ASTM D 892	ml/ml	20/0	20/0	20/0	20/0	20/0

## Performance Standards

- Denison HF-0, HF-1, HF-2
- Eaton Vickers M-2950-S, I-286-S
- DIN 51524 Part 3 HVLP Type
- US Steel 126, 127, 136
- MAG (Cincinnati Milacron) P-68, P-69, P-70
- ISO 11158 Category HV
- GM LS-2
- SEB 181 222
- JCMAS HK P041
- Bosch Rexroth RD 90220-1

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## Health and Safety

This product shows no significant health or safety hazard when used under the recommended applications and suitable handling.

Avoid the direct contact. Wash immediately after contact. Health and safety information is available on the Safety Data Sheet (SDS) which can be obtained from <http://pttlubricants.pttor.com>



The product can cause some skin irritation and has flash point higher than 93.4°C

Note: Data and information contained in this publication are based on standard test under laboratory conditions and/or performance test. To consider the use of PTT Lubricants' products in particular application, customer is responsible for determining whether product and information are appropriate for customer conditions or should consult with PTT Lubricants' technical service division. The procedure of using any lubricant may differ or change depended on different machines and their manuals. Therefore, we recommend to read, understand and review the latest SDS in order to ensure the use of product is accomplished safety.

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