

**CRUZE HYDRAULIC HVLP**  
HIGH VISCOSITY INDEX HYDRAULIC OIL

**Product Definition**

They are hydraulic oils which are produced by blending highly refined base oils with viscosity index improver additives and latest technology additives.

They are HVI type hydraulic oils which have high viscosity index and resistance to oxidation and corrosion.

**Application/Usage**

- Applicable where HLP type hydraulic oils are recommended.
- Recommended for industrial, marine, mobile and stationary hydraulic equipment.
- Suitable for construction machinery, forklifts, and cranes etc.
- They also satisfy many other lubrication applications like machine tools, gear cases and bearing systems.
- They meet DIN51517.

**Features:**

- Excellent protection against wear
- Good corrosion protection – steel & copper
- High oxidation (ageing) stability
- Excellent demulsibility
- Excellent multi-metal compatibility under-high temperature and/or water contamination

- Excellent filtration behavior (dry, wet) .
- Good performance at low and high temperatures and high loads
- Good resistance to foaming
- Good air-release/de-aeration properties

**Specifications/Approvals**

- DIN 51524-2: HLP
- ISO 6743-4: HM

**Product Package**

200 Lt - 20Lt - 4Lt - 1Lt.

**Storage**

Protect from direct sunlight and rain. Store in the original closed drums and in covered areas. Storage temperature must be between (+5)-(+40)°C.

**Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application. Used or waste product should not be allowed to contaminate soil or water. Used or waste product should be disposed of in accordance with local regulations. For further guidance on product Health and Safety refer to the appropriate Material Safety Data Sheet.

TECHNICAL PROPERTIES	UNIT	TEST VALUES				TEST METHOD
ISO Grade		15	32	46	68	DIN 51 511
Density 15°C		0.850	0.860	0.880	0.885	ASTM D-1298
Viscosity 40°C	mm <sup>2</sup> /s	15	32	46	68	ASTM D-445
Viscosity 100°C	mm <sup>2</sup> /s	3.80	6.20	8.13	10.88	ASTM D-445
Viscosity Index		150	150	150	150	ASTM D-2270
Flash Point	°C	195	220	230	250	ASTM D-92
Pour Point	°C	-40	-35	-30	-30	ASTM D-97
Total Acid Number	mgKOH/g	0.30	0.30	0.30	0.30	ASTM D-2896B
Copper Corrosion	3H,100 °C	1a				ASTM D-130
Foam Tendency/Stability	(2.kd, 93,5°C, mL)	50/0				ASTM D-892
Corrosion Test		Pass				ASTM D-665 B
Water Separability		40/37/3				ASTM D-1401
Air Release (min)	min	5				ASTM D-3427



## *PRODUCT DATA SHEET*



"The above information is derived from our quality checks. Given values are typical of current production. While future production will conform to our specification, variations in these characteristics may occur. Quality Control Analysis Report for to learn properties of the product that is supplied can give. It does not relieve the purchaser from examining product upon delivery and gives no assurance of the product for any particular purpose. Due to continual product research and development, the information contained herein is subject to change without notification."

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