

Hydraulic HVI

HYDRAULIC HVI—SPECIAL ALL-WEATHER HYDRAULIC OILS

HYDRAULIC HVI fluids from Catalys are characterized by a high V.I. to minimize viscosity change over a wide temperature range. They are blended from premium quality virgin base oils and fortified with rust, anti-wear, anti-foam and oxidation inhibitors to impart optimum performance characteristics including usefulness over a very wide operating temperature range and long service life.

The **HYDRAULIC HVI** fluids are designed for use in hydraulic systems which operate outside at subzero winter temperatures and high ambient summer temperatures. For examples, they are used for the lubrication of excavator hydraulic systems, cranes, crawler tractors, forestry materials and snow removal equipment.

HYDRAULIC HVI fluids meet or exceed the following specifications:

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|--|-------------------------------|
| -Vickers I-286-S, M-2950-S | -AFNOR E 48-603 |
| -Parker Hannfin (Denison) HF-1, HF-2, HF-0 | -Ford M-6C32 |
| -Cincinnati Milacron P-68, P-69, P-70 | -DIN 51524, Part 2 et 3 |
| -U.S. Steel 126, 127 | -Jeffrey No.87 |
| -ANSI/AGMA 9005-E02-RO | -GM LS-2 |
| -ASTM D6158 HV (ISO 15, 22, 32, 46 et 68) | -Bosch Rexroth RE 90,220 |
| -ISO 11,158 HV (ISO 15, 22, 32, 46 et 68) | -JCMAS PO41 (HK) (ISO 32, 46) |

MAIN PROPERTIES

The **HYDRAULIC HVI** fluids provide these outstanding advantages:

- Low viscosity and pour points at low temperature, protecting your hydraulic system against cavitation.
- Excellent oxidation stability, providing long life without the formation of harmful sludge.
- Protect metal surfaces against rust.
- High viscosity index, to resist large changes in viscosity with temperature variations.
- Resistance to foaming, which when excessive, causes faulty lubrication and loss of lubricant.
- Good demulsibility, enabling rapid separation of entrained water.

TYPICAL CHARACTERISTICS OF HYDRAULIC HVI

ISO Viscosity Grade	ASTM	HVI 15	HVI 22	HVI 32	HVI 46	HVI 68
Color (max.)	D1500	1.0	1.0	1.0	1.5	1.5
Density @ 15 °C, Kg/dm ³	D1298	0.855	0.856	0.858	0.862	0.868
Pour Point, °C	D97	-51	-48	-45	-36	-33
Viscosity:						
cSt (mm ² /s) @ 40 °C	D445	15.4	22.5	32.7	47.1	66.0
cSt (mm ² /s) @ 100 °C	D445	4.04	5.4	7.0	8.8	10.9
Viscosity Index (min.)	D2270	170	188	180	168	156
Rust Test —With Distilled Water	D665A	pass	pass	pass	pass	pass
—Synthetic Sea Water	D665B	pass	pass	pass	pass	pass
Operating Temperature range, °C	---	-42/50	-34/60	-26/72	-16/84	-12/96
Oxidation stability (hours)	D-943	--	>5000	>5000	>5000	>5000

Available format

	20 L	205 L	VRAC
HYDRAULIC HVI 15	07-1693-10	07-1693-05	07-1693-00
HYDRAULIC HVI 22	07-1550-10	07-1550-05	07-1550-00
HYDRAULIC HVI 32	07-1560-10	07-1560-05	07-1560-00
HYDRAULIC HVI 46	07-1570-10	07-1570-05	07-1570-00
HYDRAULIC HVI 68	07-1580-10	07-1580-05	07-1580-00