

# PETRONAS HIDRAULIK HVI

## Multigrade Premium Quality Anti-Wear Hydraulic Oils

Petronas Hidraulik HVI series are premium quality, shear stable, multigrade, anti-wear hydraulic fluids designed for use in hydraulic and fluid power transmission systems subjected to wide variations in ambient and system operating temperatures.

They are formulated from highly refined base oils and selected additives system to provide excellent low-temperature flow properties, excellent demulsibility and anti-foaming characteristics and outstanding anti-wear protection for high-pressure vane and piston pumps. Its highly shear-stable viscosity index improver resist viscosity loss at high temperature to maintain system efficiency and minimizes internal pump leakage losses.

### Applications

Recommended for the lubrication of :

- All heavy-duty hydraulic applications (mobile and stationary) where low ambient temperatures or rapid changes from high to low temperatures are encountered.
- All hydraulic pumps designs including vane, gear, and axial and radial piston pumps.
- Hydraulic and electrohydraulic servo controls.
- Plain and anti-friction bearings used in electric motors and gear sets requiring non-EP gear oils subjected to wide-range of temperatures.
- Delicate and precision machines and instruments where variations in breaking torque caused by viscosity changes must be contained within the closest possible limits.

### Customer Benefits

- Shear-stable high viscosity index with superior low temperature fluidity to reduce warm-up time, minimize energy losses and pump cavitation.
- Excellent wear protection at all operating conditions.
- Superior thermal and oxidation stability to resist oil degradation and thickening for longer oil service life.
- Rapid water separation, excellent air release and antifoam properties to ensure trouble-free operation.
- Specially selected additives system prevent the formation of damaging deposits, varnish, sludge and rust.

### Specifications

- CINCINATI MILACRON P68, P69 & P70
- DIN 51524 Part 3
- DENISON HF-0, HF-1, HF-2
- VICKERS M-2950S & I-286S
- AFNOR NFE 48603(HM), NFE 48691 (wet)

### Product Typicals

Characteristics	ISO Viscosity Grade			
	37*	46	68	100
Density @ 15 °C, kg/l	0.870	0.872	0.873	0.875
Pour Point, °C	-33	-40	-33	-33
Flash Point, °C	203	205	208	212
Kinematic Viscosity, cSt				
@ 40 °C	38.7	47.9	67	99
@ 100 °C	7.5	8.8	11.3	14.9
Viscosity Index	165	167	164	158

\* Not an ISO VG grade

### Customer Advice

For further assistance on product MSDS, recommendation or technical queries, please liaise with the regional technical services engineer or contact HQ technical engineers.