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**AUSTRALIAN OWNED AND TRUSTED SINCE 1926** 

## ULTRA HV 46 ZINC FREE (Mineral)

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PRODUCT CODE	PACK SIZE	CARTON QTY
INDUSHV46020	20L	
INDUSHV46205	205L	

### PRODUCT BENEFITS

**Ultra HV 46 Zinc Free** is a premium quality, ISO 46 HV (**High Viscosity Index**), **Zinc free** (ZF), hydraulic oil made from premium base oils and a highly shear stable viscosity modifier and an organic advanced AW (anti-wear) additive. It is formulated to maintain stable thickness across a wide range of temperatures (hot and cold) for superior viscosity control.

**Zinc Free** (ZF) formulation allows safe use in all environments including marine and agriculture applications. It is also safe for silver and yellow metal parts.

In addition, it is dyed green for easy identification

### APPLICATION

**Ultra HV 46 Zinc Free** is recommended for use in hydraulic systems such as in outdoor mobile equipment (excavators, loaders, cranes, bulldozers, tractors etc), marine, mining, manufacturing, construction, civil, agriculture/harvesting, transport & forestry.

It is recommended for all types of hydraulic systems using vane, piston or gear pumps, air line lubricators, vacuum pumps, lightly loaded gear sets and bearing (such as headstocks, windmill gears) and hydraulic hoists and jacks.

It may be used in machinery manufactured by -

Caterpillar, Doosan (Develon), Hitachi CM, Hyundai CE, JCB, Kobelco, Kobota, Komatsu, Liebherr, Sany, Volvo CE, XCMG and others as well as in components manufactured by Bosch Rexroth, Hägglunds, Danfoss, Eaton, Kawasaki & Parker Hannifin.

**Please Note:** A 58mm cap with pouring tap is available to fit 20 litre packs.  
<https://penriteoil.com.au/products/58mm-plastic-tap>

### PRODUCT BENEFITS

- Combats against rust, foaming & oxidation (oil degradation)
- Reduces sludge and deposits
- Demulsibility properties to provide water separation
- Zinc Free formulation allows no ash residue (ashless)
- Suitable for servo valve systems
- Organic anti-wear (AW) additive to reduce friction and protect metal components
- Can be used over a wide range of temperatures
- Shear stability maintains equipment performance
- Lower start up viscosity increases energy efficiency
- Compatible with silver components
- Coloured green for easy identification

### PRODUCT PERFORMANCE LEVELS

- AIST (USS) 126
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- ASTM D6158 (HV)
- Bosch Rexroth Fluid Rating RDE 90245
- China GB 11118.1 L-HM
- China GB 11118.1 L-HV
- DIN 51524 Part 3 (HLP/HVLP)
- Eaton E-FDGN-TB002-E
- Eaton Vickers I286-S
- Eaton Vickers M-2950-S
- ISO 11158 (ISO -L-HV)
- Kawasaki Heavy Industries JCMAS D-041
- Komatsu KES 07.841.1
- Parker Denison HF-0
- Parker Denison HF-1
- Parker Denison HF-2





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**TYPICAL DATA**

Colour	Green
ISO Grade	46
Density at 15°C, kg/L	0.855
Viscosity, Kinematic, cSt at 40°C	46
Viscosity, Kinematic, cSt at 100°C	8.3
Viscosity Index	157
FZG Pass Stage	11
DIN 51382, 30 Cycles After Shear, cSt at 100°C	8.27