

PRODUCT DATA SHEET

HYDRAULIC OILS HVI 32, 46 and 68

PRODUCT DESCRIPTION

Campbell Petroleum Distributors Hydraulic Oils HVI are premium hydraulic fluids formulated to handle extremes of operating temperatures, pressures, power densities and fluid flow rates.. These oils provide unique, long life operating service characteristics by a combination of anti-wear, detergent and very shear stable viscosity-improving additives with proven rust, oxidation, corrosion and foam inhibitors. **Campbell Petroleum Distributors Hydraulic Oils HVI** ensure excellent filterability with hydrolytic and demulsibility stability.

BENEFITS

- Exceptional protection where very high pressures, power densities and temperatures are inherently experienced with high horse-power hydraulic pumps operating at pressures up to 28,000 kPa (4000 psi).
- Excellent filterability even in the presence of moisture contamination.
- Smaller viscosity changes with temperature variations resulting in improved full-bodied, wear reducing, lubricating films.
- Very high shear stable viscosity improver (VI) incorporated in **Campbell Petroleum Distributors Hydraulic Oils HVI**, where other lesser VIs would shear down to less wear-protective thinned-out fluids and thus shorten the life of the hydraulic equipment.
- Exhibit good compatibility with synthetic rubbers, giving extended life to seals.
- Multi-metal compatibility with the ability to control wear and corrosion of copper and aluminium alloys used in high performance pumps. While formulated with a low zinc formula, these lubricants are NOT recommended for silver components used in Lucas PM pumps. For these products, use zinc free hydraulic oil.
- The anti-foam additive ensures any entrained air will quickly separate from the fluids so that wear producing metal-to-metal contact is avoided.

SPECIFICATIONS

Campbell Petroleum Distributors Hydraulic Oils HVI meet or exceed the following demanding performance requirements:

- Vickers I-286-S, M-2950S
- Racine-Variable volume vane pumps
- DIN 51524, Part 2
- AFNOR N FE 48-691 (wet)
- SS 155434; ISO 6743/4 (HM, HV)
- AFNOR N FE 48-603 (HM, HV)
- Hagglunds-Denison HF-1, HF-2, HF-0
- Cincinnati Milacron P-68, P-69, P-70
- US Steel 127, 136
- VDMA 24318
- SEB 181 222
- Other commercial hydraulics

Please Note: the equipment manufacturers' recommendations for viscosity grade, performance requirements and general operating conditions should be checked prior to use.

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TYPICAL PROPERTIES

Property	Units	ASTM Method	32	46	68
ISO Viscosity		-	32	46	68
Item Code		-	9004	9001	9002
Colour		-	Blue	Blue	Blue
Density @ 15°C	kg / L	D-1298	0.843	0.879	0.887
Viscosity @ 40°C	cSt	D-445	32	46	68
Viscosity @ 100°C	cSt	D-445	6.0	7.8	10.2
Viscosity Index	-	D-2270	136	139	135
Flash Point	°C	D-92	207	215	228
Pour Point	°C	D-97	-25	-25	-25
Foaming Characteristics- all sequences after settling		D-892	Nil	Nil	Nil
Oxidation Characteristics- hours to TAN 1.5		D-943	1500	1500	1500
Rust Prevention - salt water after 48 hours		D-665 B	Pass	Pass	Pass
FZG Load Test	Stages Passed	DIN 51534/12	12	12	12
Carbon Residue - Conradson	% wt	D-524	0.04	0.04	0.04

Available in:

Hydraulic Oil HVI 32 1000 Litres (9004-311) and 205 Litres (9004-205)

Hydraulic Oil HVI 46 1000 Litres (9001-311), 205 Litres (9001-205) and 20 Litres (9001-220)

Hydraulic Oil HVI 68 1000 Litres (9002-311), 205 Litres (9002-205) and 20 Litres (9002-220)

"Campbell Petroleum Distributors has endeavoured to ensure that all information, representations and specifications contained in this product data sheet are accurate at the time of publication. This general information should be used in conjunction with appropriate inquiries by users of the product including consultation with the vehicle or equipment manufacturers published information.

It is the responsibility of users of the product to use the product safely. Users should consult the safety data sheets for each product at www.campbellpetroleum.com. Campbell Petroleum Distributors takes no responsibility for injury or damage if the product is used in an inappropriate or unsafe manner.

Our product warranty and product quality statement can be viewed at www.campbellpetroleum.com.

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