Mobil

Univis™ N-C

Mobil Industrial , Canada

Premium All Season Hydraulic Fluid

Product Description

UNIform **VIS**cosity; is an essential characteristic for All Season hydraulic fluids. Modern high performance hydraulic systems rely on fluids that can resist changes in viscosity, as operating temperatures rise and fall. This is particularly important for outdoor hydraulic systems on stationary and mobile equipment that operate in climates where ambient temperatures can vary widely. The excellent All Season performance capabilities of UNIVIS™ N-C can help equipment operators to standardize to one viscosity grade for year round service in their outdoor hydraulic equipment.

UNIVIS N-C is available in five ISO VG viscosity grades, thereby providing a product designed to protect equipment over the wide range of ambient cooperating conditions in Canada. All grades are fully compatible and can be mixed in any ratio to suit ambient conditions.

Features and Benefits

Univis N-C is formulated with carefully selected base oils and a proprietary additive system, designed to provide well balanced performance in mobile and industrial equipment. These properties can help to provide long oil life and minimized deposit formation in hydraulic systems operating in severe conditions, at high pressure and temperatures. Shear stable viscosity modifiers provide higher viscosity indexes (VI). The higher the VI, the less effect temperature has on fluid viscosity. All Univis grades are formulated with enhanced VI properties that enable equipment to maintain maximum hydraulic efficiency and component protection over a wider temperature range. Outstanding foam control and air release properties provide protection for hydraulic systems by helping to prevent cavitation damage and micro dieseling.

Features	Advantages and Potential Benefits
Stable, high-performance anti-wear additives	Helps reduce wear and protects pumps and components and extend equipment life
Excellent rust and oxidation control	Oil-wetted parts, ferrous and non-ferrous, are provided with enhanced protection from rust, corrosion and the effects of oxidation
High VI, optimized low temperature fluidity, low pour points	Optimized viscosity provides stable and uniform functioning of the hydraulic system over a wider temperature range than standard hydraulic oils
Excellent shear stability for stay in grade performance	Enhanced to help provide the required oil film to protect parts, over a long service life.
Rapid air release and powerful foam control	Help to prevent destructive cavitation, aeration and resulting heat, and extend oil life
Good hydrolytic stability	Designed to resist the decomposition reaction caused by water, that can lead to the formation of acidic and corrosive materials
Rapid Demulsification of water	Help to prevent corrosion, maintain viscosity control and extend equipment life
Good compatibility with elastomers and seals	Long seal life and reduced maintenance

Applications

- Industrial and mobile equipment hydraulic systems operating at high pressures and temperatures in critical applications, indoors and outdoors
- Systems where cold start-up and high operating temperatures are challenging equipment operations
- Systems requiring a high degree of load-carrying capability and anti-wear protection

Please contact your Imperial Oil representative for help in selecting the correct grade of hydraulic oil for your equipment.

Typical Properties

Univis N-C	15	22	32	46	68
Viscosity cSt@ 40°C cSt@ 100°C	 15 3.9	 22 5.1	 32 6.6	 46 8.2	 68 10.7
Viscosity Index	164	171	168	154	147
Pour Point, °C	-54	-51	-48	-45	-42
Flash Point, °C	150	156	204	218	226
Rust Protection, 24 Hours @60°C, in synthetic sea water	Pass	Pass	Pass	Pass	Pass
FZG, fls	11	11	12	12	12
Air Release, min	-	2.4	2.7	2.8	3.8
Demulsibility after 15 minutes	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0

The values shown above are representative of current production. Some are controlled by manufacturing and performance specifications while others are not. All may vary within modest ranges.

Precautions

The products described on this data sheet are manufactured from high quality petroleum base stocks, carefully blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact to skin, splashing into the eyes, ingestion or vapour inhalation. Please refer to the Material Safety Data Sheet for further information.

Note: The products described on this data sheet are NOT controlled under Canadian WHMIS legislation.

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com
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