



THE UNIL RANGE

Engine oils

- ◆ Synthetic and mineral oils for light petrol up to heavy diesel engines
- ◆ Two-stroke engine oil

Transmission oil

- ◆ Mineral and synthetic
- ◆ Multigrade, API GL4 and GL5
- ◆ A.T.F. oils

Hydraulic liquids

- ◆ Hydraulic oils filtered at 3 micron
- ◆ Zinc-free and zinc-based hydraulic oils
- ◆ Non-flammable hydraulic liquids

Specialities for the industrial sector

- ◆ Compressor oil
- ◆ Compressed air lubricant
- ◆ General lubricant
- ◆ Transformer oil
- ◆ Gear oil
- ◆ Thermal oil
- ◆ White oils

Spray

- ◆ Silicones
- ◆ Gear and sprocket
- ◆ Anti-corrosion
- ◆ Tap oil
- ◆ Brake cleaner
- ◆ Penetrating oil
- ◆ White grease
- ◆ Food-grade
- ◆ PTFE

Winter products

- ◆ Anti-freeze
- ◆ Coolants
- ◆ Windscreen washer anti-freeze

Metalworking

- ◆ Cooling and cutting oils for ferrous and non-ferrous metals
- ◆ Abrasives
- ◆ Vapourisable products
- ◆ Micro-spraying
- ◆ Way oils

Food industry

- ◆ Lubricants for the food industry (USDA H1/NSF)

Grease

- ◆ Bearing grease
- ◆ Multipurpose grease
- ◆ Grease containing PTFE, graphite and MoS₂
- ◆ Biodegradable grease
- ◆ Grease for high and low temperatures
- ◆ Specialities

High grade range for motorcycles

- ◆ Oils for engines, transmissions, forks and chains

Equipment

- ◆ Storage tanks
- ◆ Grease pumps
- ◆ Skimmers
- ◆ Refractometers
- ◆ Filtration equipment
- ◆ Dosing pumps
- ◆ Hose reels
- ◆ Drain trays
- ◆ Oil cans
- ◆ Degreasing tables

Horticulture and forestry

- ◆ Chainsaw oil
- ◆ Biodegradable oils and grease
- ◆ Two-stroke oils

Cleaning products

- ◆ Degreasers
- ◆ Hand soap

UNIL LUBRICANTS

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ISO 9001 - ISO 14001
Certified



HYDRAULICS

Info

Are you unsure about the type of lubricant you need for your machinery? Contact our technical department, they will gladly help you choose the correct product.

Contact us by phone: +32 (0) 2 365 02 00 or by email: info@unil.com



| PRODUCT | DESCRIPTION | VISCOSITY | STANDARDS |
|--|---|------------------------------|---|
| <i>For general lubrication:</i> | | | |
| HFO | HFO is an all-round hydraulic oil developed for systems requiring an ISO class of HM. As with all other hydraulic oils in the Unil range, this oil contains anti-wear, anti-oxidant and anti-foaming additives, offering optimum protection for hydraulic systems and hydraulic circuits of mobile equipment. Proper lubrication and filterability are guaranteed. | 22 – 32 – 46 – 68 – 100 | DIN 51524 Teil 2 HLP • ISO 6743 HM • CINCINNATI P38/P68/P55/P70/P54/P69 • DENISON HFO • NFE 48600 / 60200 HM • SS 155434 • VICKERS I 286S / M2952S • Komatsu KES 07.841.1 |
| <i>For general lubrication, zinc-free:</i> | | | |
| HYDRO S | HYDRO S is an hydraulic oil containing zinc-free anti-wear additives, avoiding the blockage of valves. Hydro S is perfectly suitable for vane or gear pumps of up to 350 bar (plastic injection moulding machines, etc.), or as a hydraulic oil for machine tools. The excellent resistance to oxidation contributes to the extended life cycle of the oil. | 15 – 22 – 32 – 46 – 68 | DIN 51524 HLP • ISO 6743 HM • DENISON HFO • NFE 48600/60200 HM • CINCINNATI P68/P69/P70 • US STEEL 127 • Thyssen TH-N-256142 |
| <i>For general lubrication, zinc-free, filtered at 3 micron (NAS 6):</i> | | | |
| HYDRO NT | HYDRO NT is a zinc-free hydraulic oil, filtered at 3µ in order to fulfil the NAS 6 purity class requirements. This makes the oil extremely suitable for hydraulic systems with servo and proportional valves, and for machines with strict requirements regarding the purity class and filterability of the oil. | 46 – 68 | DIN 51524 Teil 2 HLP • ISO 6743 HM |
| <i>With an increased viscosity index:</i> | | | |
| HVA | HVA is a hydraulic oil with a viscosity index of 150. The high-quality mineral base oils and additives (e.g. stabilised zinc) guarantee an excellent performance under the most difficult conditions. The increased viscosity index ensures an almost constant viscosity in the event of temperature changes. This means that the lubrication and protection of machines remain optimum. Very suitable for industrial applications, installations subject to heavy loads, rolling stock, etc. | 15 – 22 – 32 – 46 – 68 | DIN 51524 Teil 3 HVLP • ISO 6743 HV • DENISON HF2 • CINCINNATI P69/P70 • VICKERS I 286S / M2950S • US STEEL 127/136 • NFE 48603 HV |
| HVB | With regard to performance and composition, HVB is comparable to HVA but distinguishes itself through its red colour (HVA has an amber colour). | 15 – 22 – 32 – 46 – 68 | DIN 51524 Teil 3 HVLP • ISO 6743 HV • DENISON HF2 • CINCINNATI P69/P70 • VICKERS I 286S / M2950S • US STEEL 127/136 • NFE 48603 HV |
| HVC | HVC is a hydraulic oil with a viscosity index of 180 and is in particular recommended for hydraulic systems operating at large temperature variations and pressures (> 350 bar). It can always be used for gear pumps, piston pumps and vane pumps. HVC offers you the opportunity to rationalise your oil stock. HVC has a remarkable green colour, which simplifies the detection of any leakages. | 22 – 32 – 46 – 68 – 100 | DIN 51524 Teil 3 HVLP • ISO 6743 HV • CINCINNATI P68(ISO32) • DENISON HFO • NFE 48603 HV • VICKERS I 286S / M2952S • SS 155434 |
| <i>With an increased viscosity index and the capacity to absorb water:</i> | | | |
| HYDRALUX HV | HYDRALUX HV has detergent properties (up to 3% water absorption without the risk of corrosion or wear) and is in particular recommended for machinery sensitive to contamination with water and when the possibility of large temperature differences exists (increased viscosity index). Ideal for use in public works, agriculture and machines operating under difficult conditions (ambient temperature, humidity, dust, dirt, etc.). | 32 – 46 – 68 | DIN 51524 Teil 3 HLP-D • ISO 6743 HV • MAN N698 • NFE 48603 HV / 60200 HV • VICKERS I 286S / M2950S |
| <i>Flame-retardant:</i> | | | |
| HYDRO FIRE | HYDRO FIRE is a water-free synthetic liquid based on organic esters (this oil is for more than 90% biodegradable) and is strongly recommended for hydraulic installations in a fire-hazard zone (heat sources or very flammable material), especially in the event of a breakage of pressure pipes. HYDRO FIRE fulfils the safety requirements of the mining, steel and glass industry, as well as for doors of industrial ovens and moulding machines of liquid metal. | 46 – 68 | ISO 6743 HFDU • CEC-L-33 A-93 (>90% biodegradable) |
| FIREX | FIREX 46 is based on water-glycol and can be used in all hydraulic systems of equipment used for mining or in the steel industry, injection moulding machines, equipment subject to pressure in foundries, as well as equipment in a fire-risk zone or requiring absolute safety. | 46 | ISO 6743 HFC |
| <i>Resistant against very low temperatures:</i> | | | |
| HVC SX | HVC SX 15 is a high-quality, zinc-free EP-hydraulic oil based on specially selected solvent refined, mineral based oils. This oil is in particular recommended for hydraulic systems subject to extremely low temperatures and is perfectly usable down to -40°C. HVC SX is primarily used in tailgates of trucks and loading bays. | 15 | DIN 51524 Teil 3 HVLP • ISO 6743 HV • CINCINNATI P69(ISO68) • DENISON HFO • NFE 48603 HV • VICKERS I 286S / M2952S |
| TUNDRA | The TUNDRA hydraulic liquids are particularly recommended for hydraulic systems subject to extremely low temperatures, in particular for tailgates of ships and trucks, palletising machines in cold rooms, loading bays, freezer rooms, etc. However, it can also be used in the aviation industry for the movement of the flaps, etc. Due to its extremely low flow point the oil is perfectly suitable for temperatures as low as -50°C (the freezing point is -63°C!). | 15 – 32 | DIN 51524 Teil 3 HVLP • ISO 6743 HV • DENISON HFO • NFE 48603 HV |
| <i>With energy-saving properties:</i> | | | |
| HYDRO ECO HV | HYDRO ECO HV is a hydraulic oil developed to enable the optimum energy-efficient performance of hydraulic systems. It is a zinc-free and ash-free synthetic oil containing specific additives providing an extremely low friction coefficient (less friction within the machine), increased viscosity index and extended renewal intervals. HYDRO ECO HV is perfectly suitable to be used to achieve substantial energy savings and lower maintenance costs for installations with high process pressures, such as moulding machines and hydraulic presses. | 46 | DIN 51524 Teil 3 HVLP • DENISON HFO/HF1/HF2 • Bosch Rexroth RE 90220 • ISO 11158 • CINCINNATI P68(ISO32)/P69(ISO68)/P70(ISO46) • Eaton 35VQ25 • GM LS-2 • SAE MS 1004 |
| <i>With a biodegradable character:</i> | | | |
| FLUID BIO | FLUID BIO is an environment-friendly (> 95% biodegradable) plant-based oil and is recommended where leakage or oil loss would threaten the environment: for vehicles and hydraulic equipment in forestry, agriculture, etc. The additives used in FLUID BIO provide good extreme pressure and anti-corrosion properties, and good resistance to oxidation for temperatures up to 70°C. | 32 | CEC-L-33 A-93 |
| FLUID BIO S | FLUID BIO S is an environment-friendly (> 95% biodegradable), synthetic (saturated esters) hydraulic oil suitable for hydraulic systems operating under difficult conditions requiring an oil with high anti-wear properties, and a high and stable viscosity index. Due to its synthetic oil base, FLUID BIO S has an excellent resistant to oxidation, good pumpability at low temperatures and can be used for extended renewal intervals. | 22 – 46 | ISO 6743 HV • DIN 51524 Teil 3 HVLP • CEC-L-33-A-93 |
| <i>For the food industry:</i> | | | |
| HYDRO FOOD | The HYDRO FOOD hydraulic oils (with a mineral base and high viscosity index) were developed for use in the food industry. They are recommended for the lubrication of slide bearings, plain bearings, cylinders and hydraulic systems. The HYDRO FOOD range is odourless, colourless and tasteless, and poses no risk in the event of incidental contact with food. | 15 – 22 – 32 – 46 – 68 – 100 | NSF H1 • USDA H1 |