

210 | Uni-Vis Industrial Hydraulic Oil

DESCRIPTION:

Uni-Vis Industrial Hydraulic Oil No. 210 is blended from highly refined base stock oils and selected additives to provide an oil suitable for a wide variety of hydraulic applications. It is available in light, medium and heavy weight oils, all with excellent low temperature flow characteristics and high viscosity index.

COMPOSITION:

210 contains the following additives:

- | | |
|------------------------|--------------------------|
| ■ Oxidation Inhibitors | ■ Anti-foam Agents |
| ■ Anti-wear Agents | ■ Rust Inhibitors |
| ■ Corrosion Inhibitors | ■ Pour Point Depressants |

PERFORMANCE CHARACTERISTICS:

With its high viscosity index, this oil shows very little flow rate change regardless of changes in pressure and temperature and prevents loss of pressure around seals.

Oxidation unchecked is approximately doubled for every 20 degree rise in temperature. Oxidation is prevented which can clog small orifices and tightly fitted parts and lead to corrosion of metal surfaces. Special additives prevent rusting by forming a protective film on metal surfaces.

The positive lubrication provided reduces fluid operating temperatures and provides better overall mechanical efficiency combined with less power consumption. It is extremely inexpensive due to its long life and reduced wear and tear on parts.

Base stocks are utilized which have excellent resistance to emulsification and high resistance to foaming.

USES:

Suitable for Use (meets and exceeds):

- AFNOR: E 48-603/NFE 48-690/NFE 48-691
- AIST 126, 127
- B.F. Goodrich 0152
- Bosch Rexroth RE 90220
- Denison HF-O, HF-1, HF-2
- DIN: 51524 Part II,III/51506 VDL
- Eaton Vickers: I-286-S/M-2950-S
- Ford M-6C32
- General Motors: LH-03-1/04-1/06-1/15-1
- GM LS-2
- JCMAS P041 HK Hydraulic Specification
- Jeffrey No. 87
- Lee-Norse 100-1
- Racine, variable volume vane pumps
- SEB 181222
- Sauer Danfoss
- U.S. Steel 127, 136

APPLICATIONS:

- | | |
|---|-----------------------|
| ■ Construction Equipment | ■ Winches |
| ■ Plant Hydraulics, Gear Boxes & Bearings | ■ Hydraulic Platforms |
| ■ Drilling Equipment | ■ Cranes |
| ■ Deck & Cargo Handling Equipment | ■ Air Compressors |
| ■ Mining Equipment | ■ Draglines |
| ■ Hatch Covers | |
| ■ Logging Equipment | |

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TYPICAL SPECIFICATIONS:

	ASTM Method	Extra Light	Light	Med.	Heavy
ISO Viscosity Grade		32	46	68	100
Viscosity					
cSt @ 40°C	D-445	30.8	45.1	64.5	102.7
cSt @ 100°C	D-445	5.8	7.1	8.8	11.7
Viscosity Index	D-2270	133	117	110	102
Flash, °F.	D-92	460	460	465	470
Pour, °F.	D-97	-34	-30	-25	0
Gravity, °API	D-287	32.4	31.8	30.0	29.0
Copper Strip, 3 hr/212°F.	D-130	1a	1a	1a	1a
Demulsibility at 130°F.	D-1401				
Separation, minutes		5	5	5	5
Foam, Tendency/Stability	D-892				
Sequence 1, ml.		0/0	0/0	0/0	0/0
Sequence 11, ml.		0/0	0/0	0/0	0/0
Sequence 111, ml.		0/0	0/0	0/0	0/0
Hydrolytic Stability	D-2619				
% Kin-vis Change		4.5	4.5	4.5	4.5
Rust, Distilled Water	D-665A	Pass	Pass	Pass	Pass
Rust, Synthetic Sea Water	D-665B	Pass	Pass	Pass	Pass
TOST Test < 2.0 mg TAN					
Oxidation Stability, hrs.		6000	6000	6000	6000
4-Ball Wear Scar, mm.	D-2266	.5	.5	.5	.5
FZG Test, load stages passed		12	12	12	12
Appearance	Visual	Bright	Bright	Bright	Bright