PRIMROSE PLUS

PRIMROSE SINCE 1916

Technical Data Sheet

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-wear Agents
- Corrosion Inhibitors
- Anti-foam Agents
- Rust 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 prevent 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:

Engineered to give efficient operation and excellent lubrication in all types of industrial hydraulic applications and operating conditions, performance far exceeds the anti-wear requirements for Vickers Pumps as shown in the Vickers Pump Test (ASTM D2882). Meets and exceeds Vickers' requirement for a "high zinc" type anti-wear hydraulic oil. Meets and exceeds also Denison Pump Division HF-2 and HF-0 specifications. Formulated to meet and exceed requirements of Cincinnati Milacron.

APPLICATIONS:

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

Primrose Oil Company, Inc. 11444 Denton Drive / P.O. Box 29665 / Dallas, Tx 75229-0665 / 972.241.1100 / 800.275.2772 / Fax: 972.241.4188

PRIMROSE PLUS

SINCE 1916

210 Uni-Vis Industrial Hydraulic Oil

TYPICAL SPECIFICATIONS:

	ASTM Method	Extra Light	Light	Med.	Heavy
ISO Viscosity Grade		32	46	68	100
Viscosity					
SUS @ 100°F	D-2161	154	205	315	463
SUS @ 210°C.	D-2161	44	48	55	64
cSt @ 40°C.	D-445	30	44	68	100
Viscosity Index	D-2270	104	103	103	100
Flash, °F.	D-92	460	460	465	470
Pour, °F.	D-97	-25	-25	-20	0
Gravity, °API	D-287	32.4	31.8	30.0	29.0
Total Acid Number					
mg KOH/g	D-664	1.3	1.3	1.3	1.3
Copper Strip, 3 hr/212°F.	D-130	1	1	1	1
Conradson Carbon, %	D-189	.25	.25	.25	.25
Aniline Point, °F.	D-611	229	229	235	245
Demulsibility at 130°F.	D-1401				
Separation, minutes		15	15	15	15
Foam, Tendency/Stability	D-892				
Sequence 1, ml.		25/0	25/0	25/0	25/0
Sequence 11, ml.		25/0	25/0	25/0	25/0
Sequence 111, ml.		25/0	25/0	25/0	25/0
Rust, Distilled Water	D-665A	Pass	Pass	Pass	Pass
Rust, Synthetic Sea Water	D-665B	Pass	Pass	Pass	Pass
Oxidation Stability, hrs.	D-943	2800	2800	2800	2800
4-Ball Wear Scar, mm.	D-2266	.35	.35	.35	.35
Timken OK Load		35 lb	35 lb.	35 lb.	35 lb.
FZG Test, load stages passed		9	9	9	9
Appearance	Visual	Bright	Bright	Bright	Bright

Primrose Oil Company, Inc. 11444 Denton Drive / P.O. Box 29665 / Dallas, Tx 75229-0665 / 972.241.1100 / 800.275.2772 / Fax: 972.241.4188