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All-Weather Anti-Wear (AW) Hydraulic Oils

Nature's Choice® All-Weather Anti-Wear (AW) Hydraulic Oils are superior anti-wear hydraulic and circulating fluids specially formulated to provide maximum performance at a wide range of temperatures. These hydraulic oils offer outstanding resistance to sludge formation, are chemically and shear stable, and exhibit excellent anti-wear properties.

Nature's Choice® All-Weather AW Hydraulic Oils also contain anti-foam agents to limit air entrainment in hydraulic systems, and demulsifiers to separate water from the oil in the sump.

Nature's Choice® All-Weather AW Hydraulic Oils are zinc-based hydraulic fluids which are recommended for service in vane, piston, and gear pumps when used according to the manufacturers' recommendations. These oils provide maximum service life to these pumps as well as other system components.

Nature's Choice® All-Weather AW Hydraulic Oils meet the following specifications:

- Denison HF-0, 1, and 2
- Vickers M-2950-S, I-286-S
- Cincinnati Milacron P-68, 69, 70
- US Steel 126, 127, and 136
- DIN 51524, Parts 2 and 3

The Nature's Choice® product line was developed in response to President Clinton's Executive Order 13101 which mandated the use of motor oils with re-refined content for government use. Since that time, the Nature's Choice® product line has grown from motor oils to include many other types of lubrication. Blending virgin and re-refined base stocks with quality additive chemistry, Nature's Choice® brand products are able to meet the top performance grades required for today's lubrication requirements, while being more environmentally friendly.

Typical Properties:

| Product | Nature's Choice® All-Weather AW Hydraulic Oils | | | |
|--|--|-----------|-----------|-----------|
| Product Code | 111211 | 111212 | 111213 | 111214 |
| ISO Viscosity Grade | 22 | 32 | 46 | 68 |
| Kinematic Viscosity @ 100°C, cSt (ASTM D-45) | 5.43 | 6.60 | 8.32 | 11.1 |
| Kinematic Viscosity @ 40°C, cSt (ASTM D-445) | 22.35 | 31.85 | 49.57 | 68.0 |
| Viscosity Index (ASTM D-2270) | 195 | 169 | 142 | 155 |
| Pour Point, C° (F°) (ASTM D-97) | -51,(-59.8) | -45,(-49) | -41,(-42) | -25,(-13) |
| Emulsion Separation, min (ASTM D-1401) | 10 | 10 | 10 | 10 |
| Turbine Oxidation Test, hours (ASTM D-3241) | 5000 | 5000 | 2500 | 2500 |
| RPVOT, min (ASTM D-2272) | 193 | 193 | 134 | 134 |
| API Gravity (ASTM D-1298) | 33.5 | 32.3 | 31.0 | 31.5 |
| Zinc, ppm | 282 | 282 | 282 | 282 |