



Technical Data Sheet

- REDUCING OPERATING COSTS AND IMPROVING PRODUCTIVITY.
- OUTSTANDING HYDRAULIC SYSTEM EFFICIENCY; ULTRA KEEP CLEAN PERFORMANCE

Pure Tech HVI – Pure HDZ 15

Premium Quality HVI Hydraulic Oils

Pure Tech HVI – Pure HDZ 15 is high performance anti-wear hydraulic oils specifically designed to meet the needs of moder, high pressure, industrial and mobile equipment hydraulic systems.

Pure Tech HVI – Pure HDZ 15 is constructed from selected base oils and a proprietary additive system to provide well balanced performance in a range of applications. The products exhibit outstanding oxidation and thermal stability allowing long oil life and minimized deposit formation in severe hydraulic systems using high pressure, high output pumps. The innovative ultra keep clean performance protects critical hydraulic system components from malfunction, such as tight tolerance servo and proportional valves found in many modern hydraulic systems. The shear stable, high viscosity index allows for a wide operating temperature range maintaining maximum hydraulic efficiency and component protection at both low and high temperatures. Outstanding air release properties provide an added measure of protection in systems with low residence time helping to prevent cavitation damage and micro dieseling. The carefully selected base oil and additives allow passing results of acute aquatic toxicity testing (LC-50, OECD 203) and the zinc free anti-wear system provides a high degree of protection in gear, vane and piston pumps while also minimizing deposit formation.

FEATURES AND BENEFITS

Pure Tech HVI – Pure HDZ 15 hydraulic oils provide outstanding hydraulic system efficiency; ultra keep clean performance, and a high degree of fluid durability. The hydraulic efficiency feature can lead to reduced energy consumption for both industrial and mobile equipment, reducing operating costs and improving productivity. Their excellent oxidation and thermal stability can help to extend oil and filter change intervals while helping to ensure clean systems. Their high level of anti-wear properties and excellent film strength characteristics result in a high degree of equipment protection that not only results in fewer breakdowns but helps improve production capacity.

| FEATURES | ADVANTAGES AND POTENTIAL BENEFITS |
|--|---|
| Excellent Hydraulic Efficiency | Potentially reduced energy consumption or increased system responsiveness |
| Ultra Keep Clean Performance | Reduced system deposits leading to reduced machine maintenance and increased component life |
| Shear Stable, High Viscosity Index | Sustained component protection over a wide temperature |
| Oxidation and Thermal Stability | Extends fluid life even under harsh operating conditions |
| Good compatibility with elastomers and seals | Long seal life and reduced maintenance |
| Anti-wear properties | Helps reduce wear and protects pumps and components for extended equipment life |
| Excellent Air Separation Characteristics | Helps prevent aeration and cavitation damage in low residence time systems |
| Multi metal compatibility | Helps ensure excellent performance and protection with a wide variety of component metallurgy |

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MAIN APPLICATIONS

- Marine and industrial hydraulic systems operating at high pressures and temperatures in critical applications
- Hydraulic systems subject to deposit build-up such as sophisticated Computer Numerically Controlled (CNC) machines, particularly where close clearance servo-valves are used
- Systems where cold start-up and high operating temperatures are typical
- Systems requiring a high degree of load-carrying capability and anti-wear protection
- Machines employing a wide range of components using various metallurgy

TYPICAL PHYSICAL CHARACTERISTICS

| PROPERTIES | | | METHOD | HVI – PURE HDZ 15 |
|-------------------------|-------------|----------------|-----------------|-------------------|
| ISO Viscosity Grade | | | | 15 |
| Kinematic Viscosity | cSt @40°C | | ASTM D445 | 15.8 |
| Kinematic Viscosity | cSt @100°C | | ASTM D445 | 4.07 |
| Viscosity Index | | | ASTM D2270 | 168 |
| Brookfield Viscosity | cp -20°C | | ASTM D2983 | - |
| Brookfield Viscosity | cp -30°C | | ASTM D2983 | - |
| Brookfield Viscosity | cp -40°C | | ASTM D2983 | 2620 |
| Tapered Roller Bearing | % | Viscosity Loss | CEC L-45-A-99 | 5 |
| Density | 15°C | kg/L | ASTM D4052 | 0.8375 |
| Copper Strip Corrosion | 3hrs @100°C | | ASTM D130 | 1B |
| FZG Gear Test | | Fail Stage | DIN 51354 | - |
| Pour Point | | °C | ASTM D97 | -54 |
| Flash Point | | °C | ASTM D92 | 182 |
| Form Squence I, II, III | | ml | ASTM D892 | 20/0 |
| Dielectric Strength | | kv | ASTM D877 | 45 |
| Acute Aquatic Toxicity | | | LC-50, OECD 203 | pass |

HEALTH, SAFETY & ENVIRONMENT

Health and Safety

Pure Tech HVI – Pure HDZ 15 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

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