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Sector: Industrial

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## Millmax SE BIO 32

Millmax SE BIO 32 is a premium synthetic hydraulic oil engineered with HEES (Synthetic Esters) to meet the stringent demands of modern hydraulic equipment. It pairs superior environmental acceptability with high-level anti-wear protection. Its very high Viscosity Index (VI) is essential for maintaining consistent viscosity and film strength across a broad temperature spectrum, promoting smooth, powerful operation and considerable energy savings.

### Application

Recommended for general-purpose mobile and industrial hydraulic systems operating in environmentally sensitive areas. Ideal for construction plant, marine deck equipment, agriculture machinery, and applications where potential fluid leaks could contaminate waterways or soil.

### Features & Benefits

- Superior Environmental Credentials: The formulation is readily biodegradable and demonstrates low acute toxicity, significantly mitigating the ecological impact of accidental spills.
- Maximised Efficiency: The high VI ensures minimal viscosity change, allowing the hydraulic pump to work less to compensate for temperature, thus delivering tangible energy efficiency benefits.
- Reliable Film Strength: Exceptional anti-wear properties offer dependable protection for pumps, pistons, and other internal parts, prolonging the lifespan of the system.
- System Cleanliness: Excellent resistance to heat and oxidation keeps the fluid free from sludge and lacquer, ensuring continuous operational reliability.
- Wide Operating Range: Delivers rapid cold start-up and effective sealing and protection at normal operating temperatures.

### Performance Profile

- DIN 51524-3 (excl. ASTM D4310)
- ISO 15380 (HEES)
- ISO 6743-4
- VDMA 24568 (HEES)
- Readily biodegradable OECD 301B >80%
- CEC L-33-T-82 Biodegradability >80%
- EU EcoLabel Compliant
- Denison SK-30320
- Swedish Standard 15 54 34
- DIN 51585-A

### Typical Characteristics

Density @ 15°C, g/ml	0.921
KV @ 40°C, cSt	32.5
KV @ 100°C, cSt	7.1
Viscosity Index	190
Pour point, °C	≥-45°C
Flash point, °C	≥235°C