CAM2 Ultra Turbine Oils are premium, ashless turbine fluids designed to cool and lubricate steam, hydraulic, gas, turbo, and hydroelectric turbines operating under moderate to severe conditions. The ashless formulation contributes to optimum turbine performance and reliability by resisting the formation of varnish and sludge buildup.

CAM2 Ultra Turbine Oils outstanding resistance to oxidation and thermal stability minimizes fluid breakdown caused by air and high temperatures. The thermal and oxidation stability of these lubricants, due to their high level of refinement, has been further enhanced by their unique formulation. The ashless additive protects against oxidation deposit formation or the generation of acidic material keeping the fluid from breaking down at higher temperatures.

CAM2 Ultra Turbine Oils have very good demulsibility characteristics allowing quick release of moisture. They minimize entrained air which otherwise could result in low lubricant film strength between moving parts and pump cavitation increasing wear. This quick air release allows for longer fluid life and reduced maintenance due to downtime.

CAM2 Ultra Turbine Oils are formulated with non-volatile oxidation inhibitors which promote long oil life. At high temperatures, inhibitors can be lost due to evaporation which has become a common problem in systems with high bearing temperatures and limited system capacities. Ultra Turbine’s ability to retain inhibitors minimizes down time and extends drain intervals.

They display excellent performance in several key tests including the Fresh Water Corrosion Test (ASTM D665, Procedure A), the severe Synthetic Sea Water Rust Test (ASTM D665, Procedure B), ASTM D892 Foam Stability Test, ASTM D668 Rust and Corrosion Test, and the RPVOT ASTM D2272 where it performed for over 8,000 minutes displaying extended drain capability.

**APPLICATIONS**

CAM2 Ultra Turbine Oils are recommended for applications calling for rust and oxidation inhibited oils

- Gas, steam and hydraulic turbines
- Steam turbines except GE Frame 7000
- Hydraulic systems
- Air compressors
- Industrial bearings
- Circulating systems
- A myriad of assorted industrial applications: hoists, electric motor bearings, machine tools, etc.
- Gear sets calling for AGMA R&O oil
PRODUCT BULLETIN

CAM2 Ultra Turbine Oil
PRODUCT # 302, 156, 157, 158, 159, 160, 161, 162, 192

SPECIFICATIONS

Ultra Turbine Oils shows suitable performance in the following applications:
• AGMA R&O Gear Oils 1, 2, 3, 4, 5, 6EP, 7EP
• MAG Cincinnati, Cincinnati Machine P-38 (ISO 32), P-55 (ISO 46), P-54 (ISO 68), P-57 (ISO 150)
• Denison HF-0
• British Standard 489
• General Electric GEK 32568, GEK 107395, GEK 46506, GEK27070
• Solar ES 9-224, Class II (ISO 32)
• Siemens TLV 9013 04
• Alstom HTGD 90 117
• Solar Turbines ES9-224
• MIL-H17672D (ISO VG 32, 46, 68)
• U.S.Steel 224
• DIN 51515-1
• AIST 125ISO 8068

TYPICAL CHARACTERISTICS

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<tr>
<th>ISO Viscosity Grade</th>
<th>Test Method</th>
<th>22</th>
<th>32</th>
<th>46</th>
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<td>Product Code</td>
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<td>Viscosity, cSt @ 100°C</td>
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<td>-32 (-25), -32 (-25), -29 (-20), -29 (-20), -23 (-10), -22 (-9), -22 (-9), -22 (-9), -18 (0)</td>
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