

AKELA™ NATURAL GAS ENGINE OIL DXE LOW ASH

Manufactured with highly refined base oils

DESCRIPTION: AKELA™ DXE Low Ash Gas Engine Oils are high performance natural gas low ash engine lubricant formulations with a balanced and field-proven additive system. Formulated to provide excellent deposit, sludge and wear protection during high stress service. Excellent high temperature piston deposit performance maintains an engine's peak performance and preserves ring face and liner honing. Purposely selected supplementary antioxidants mitigate the impact of high temperature blow-by gases on viscosity and extend oil life. The advanced detergent system provides excellent valve, seat and guide protection while it minimizes catalyst plugging. The AKELA™ DXE Low Ash Gas Engine Oils TBN retention combats oil degradation and provides protection in a high temperature acidic environment.

AKELA™ DXE Low Ash Gas Engine Oils are formulated with low sulfur Group II base oils combined with a robust additive system containing ashless dispersant, oxidation and corrosion inhibitors, antifoam and anti-wear agents. These oils meet the performance requirements of major engine manufacturers such as *Caterpillar, Deutz-MWM, Guascor, Jenbacher, Wartsila, Waukesha and other turbocharged and naturally aspirated low ash four stroke engines. AKELA™ DXE Low Ash Gas Engine Oils meets API CD/CF performance in stationary gas engines. AKELA™ DXE is recommended for Dresser Rand Categories I, II and III applications.

PERFORMANCE *AKELA™ DXE Low Ash Gas Engine Oils are a robust Low Ash Gas Engine oil formulation which meets

BENEFITS: Caterpillar's G3516 and G3600 series engine performance field test protocol.

- Maximize Engine Run Time
- Outstanding Engine Cleanliness
- Excellent Valve Recession Performance
- Excellent Piston Deposits Performance
- Outstanding TBN Retention and Resistance to Oil Degradation
- Extended Oil Drain Interval
- Improved Low Temperature Performance
- Catalyst Systems Compatible

¹TYPICAL

| PROPERTIES*: | SAE Viscosity | 30 | 40 | 40CC | 15W-40 |
|---------------------|----------------------|-----------|-----------|-------------|---------------|
| | @40 °C, cSt | 100 | 125 | 128 | 127 |
| | @100 °C, cSt | 11.5 | 13.3 | 13.6 | 15.8 |
| | Viscosity Index | 101 | 100 | 102 | 132 |
| | API Gravity | 29 | 29 | 30 | 31 |
| | Flash, COC, °F | 495 | 500 | 500 | 450 |
| | Pour Pt., °F(°C) | -22(-30) | -17(-27) | -32(-36) | -38(-39) |
| | Sulfated Ash | 0.47 | 0.47 | 0.47 | 0.47 |
| | TBN, ASTM D 2896 | 5.8 | 5.8 | 5.8 | 5.8 |
| | Zinc, ppm | 270 | 270 | 270 | 270 |
| | Phosphorus, ppm | 250 | 250 | 250 | 250 |

1-The values shown here are typical of current production. All of them may vary within modest ranges.

*Due to continual product research and development, the information contained herein is based on products purchased in the U.S. and subject to change without notification. Typical properties may vary slightly.

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