



Mobil Gargoyle Arctic SHC Series

Supreme-performance oils for industrial refrigeration systems



Operate at peak productivity. It takes proper maintenance to operate an industrial refrigeration system. Interruption of service or reduced system capacity can result in significant loss of production or products in storage. The Mobil Gargoyle Arctic SHC Series of synthetic refrigeration oils helps enable efficient, reliable operation and is suitable for use with a range of refrigerants commonly encountered in industrial applications.

Exceptional lubrication for multiple applications. Mobil Gargoyle Arctic SHC Series provides outstanding lubrication for compressors in industrial refrigeration systems — as well as commercial, heat pump, and marine refrigeration systems — using CFC (R12), HCFC (R22), ammonia (R717), and carbon dioxide (R744) refrigerants. This series includes a range of viscosity grades for use in reciprocating and rotary compressor designs, including screw compressors.

Features high oil film thickness in the presence of refrigerant. Mobil Gargoyle Arctic SHC Series offers improved antiwear protection for extended compressor life as well as better shaft sealing and reduced bearing fatigue, resulting in less unscheduled downtime. Outstanding viscometrics offer protection at high temperatures while a low pour point and the absence of wax enable operations at very low temperatures.

Benefit from excellent thermal, oxidative, and chemical stability. Mobil Gargoyle Arctic SHC Series products have outstanding thermal and oxidative stability, which means potentially longer oil life, reduced drain intervals, and less maintenance. Excellent chemical stability from synthetic base oils offers reduced lacquer and deposit formation for longer filter life and reduced shaft-seal leakage.

High-Performance Benefits

Low volatility

Less viscosity buildup and reduced oil consumption.

High Viscosity Index and wax-free

Excellent low-temperature fluidity and no waxy deposits help improve evaporator efficiency.

Low traction coefficient

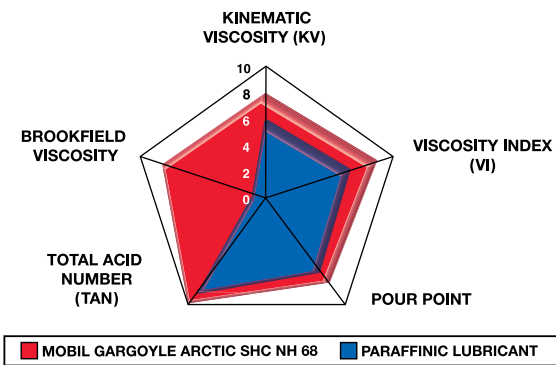
Potential for improved system efficiency and reduced power consumption.

Seal compatibility

Formulated to provide long seal life for reduced shaft-seal leakage.

Mobil Gargoyle Arctic SHC Series — Performance

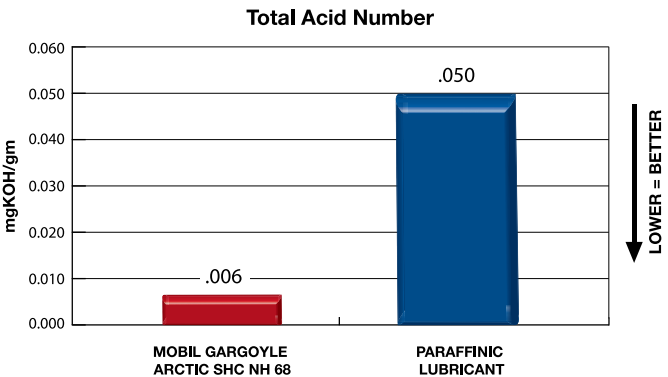
Balanced Formulation Comparison with Paraffinic Alternative



Testing of Mobil Gargoyle Arctic SHC NH 68 vs. a paraffinic alternative showed superior performance on several key refrigeration lubricant parameters.

Long Oil Life

CHART 3



With a lower starting Total Acid Number (Chart 3), Mobil Gargoyle Arctic SHC NH 68 potentially offers longer oil life compared with the competitive paraffinic alternative.

Outstanding Viscosity for Wear Protection

CHART 1

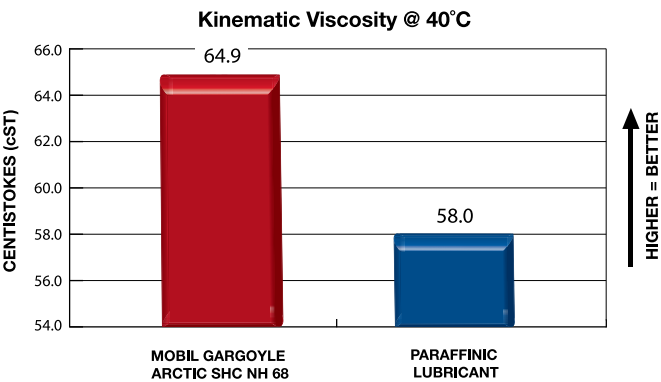
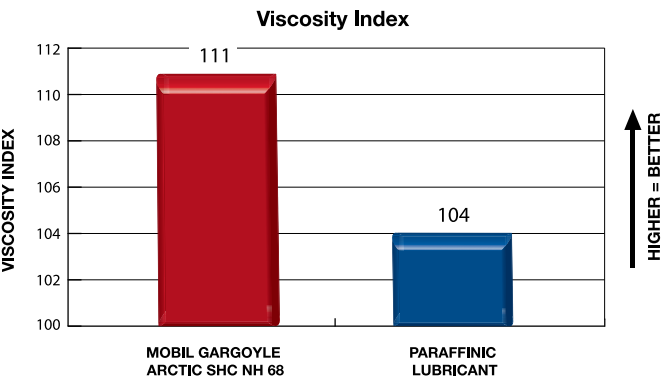


CHART 2



Mobil Gargoyle Arctic SHC NH 68 has higher viscosity (Chart 1) and higher Viscosity Index (Chart 2) compared with the competitive oil, indicating higher viscosity at operating temperature and less viscosity change with temperature. This equates to better wear protection of equipment.

Low-Temperature Performance

CHART 4

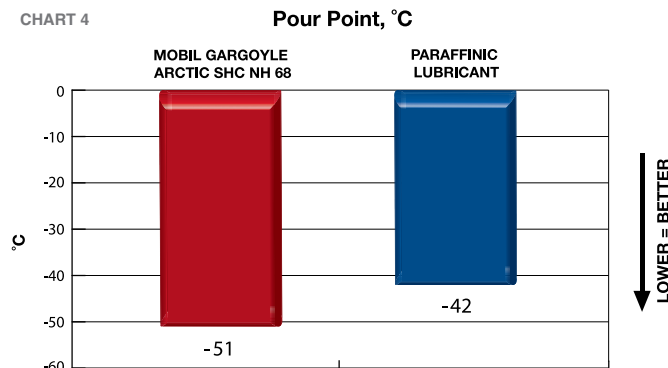
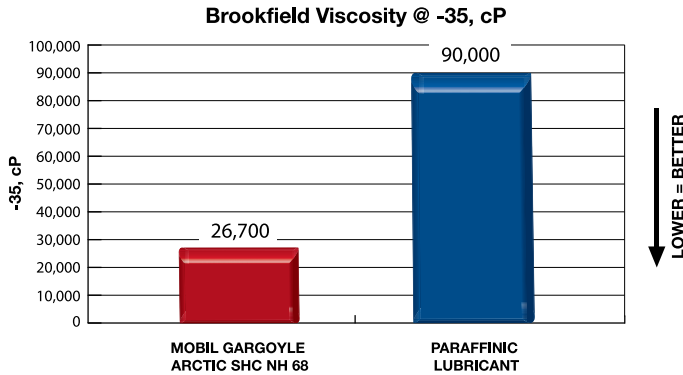


CHART 5



With a lower pour point (Chart 4) and lower Brookfield Viscosity (Chart 5), Mobil Gargoyle Arctic SHC NH 68 offers better low-temperature performance compared with the competitive alternative.

Kinematic Viscosity — measure of oil thickness. **Brookfield Viscosity** — measure of oil thickness at low temperatures. **Total Acid Number** — acidity of the oil. **Pour Point** — low-temperature pourability of the oil. **Viscosity Index** — measure of oil viscosity stability as the temperature changes.

For more information on Mobil Gargoyle Arctic SHC Series and other Mobil Industrial Lubricants and services, contact your local company representative or visit www.mobilindustrial.com.