Performance by ExonMobil

Mobil SHC Cibus[™] Series

High-performance synthetic lubricants for food processing machinery



Energy lives here"

Key benefits



Protection against wear, rust and corrosion to help limit maintenance costs



Potential energy savings for gear and hydraulic applications

Optimal lubrication even at extreme low and high temperatures

0% <u>-</u>

Up to

Formulated to be suitable under halal and kosher dietary laws and to be gluten-, nut- and wheat-free With a wide range of applications in the food industry Mobil SHC Cibus™ Series NSF H1-registered lubricants are designed to help deliver:

- Increased productivity and decreased costs
- Ensuring elevated level of product integrity are maintained
- Excellent wear protection for critical equipment

energy savings in gear applications*



Potential energy efficiency in gear applications

Mobil SHC Cibus[™] Series oils show up to 3.6% overall efficiency improvement compared with mineral gear oils in proprietary worm gear bench tests, helping reduce energy consumption and maximize productivity.*



Potential energy efficiency in hydraulic applications

In tests using a vane pump under controlled conditions, Mobil SHC Cibus Series oils demonstrate overall efficiency improvement up to 3.5% compared to a mineral oil-based reference fluid.**

* Energy efficiency relates solely to the fluid performance when compared to conventional (mineral) reference oils of the same viscosity grade in circulating and gear applications. The technology used allows up to 3.6% efficiency compared to the reference when tested in a worm gearbox under controlled conditions. Efficiency improvements will vary based on operating conditions and applications.



** Energy efficiency relates solely to the fluid performance when compared to Mobil DTE[™] 25. The technology used provides up to 3.5% efficiency compared to the reference when tested in an Eaton 25VMQ vane pump under controlled conditions. Efficiency improvements will vary based on operating conditions and applications.

Mobil SHC Cibus[™] Series

Typical properties*

Mobil SHC Cibus Series	32	46	68	100	150	220	320	460
Viscosity, ASTM D 445, cSt @ 40°C	30.7	46.4	67.5	100	162	222	311	458
Viscosity, ASTM D 445, cSt @ 100°C	5.8	7.9	10.4	14.6	20.7	24.5	32.7	43.6
Viscosity Index, ASTM D 2270	134	140	140	143	150	139	147	148
Specific Gravity @ 15.6, ASTM D 4052,°C	0.843	0.846	0.851	0.839	0.843	0.843	0.854	0.856
Copper Strip Corrosion, ASTM D 130	1B	1B	1B	1A	1A	1B	1B	1B
Rust Characteristics Proc. A, ASTM D 665	PASS							
Pour Point, °C, ASTM D 97	-51	-50	-47	-45	-21	-24	-42	-42
Flash Point, °C, ASTM D 92	244	244	258	270	226	274	284	294
FZG, DIN 51354, Fail Stage	> 12	> 12	> 12	> 12	> 13	> 13	> 13	> 13

Oxidation stability and oil life

Mobil SHC Cibus Series lubricants demonstrate long oil life and enhanced system cleanliness versus standard circulating oils as demonstrated in the proprietary Mobil Hydraulic Fluid Durability (MHFD) test rig, where, when comparing ISO VG 46 oils, the level of deposits in the reservoir is significantly less with Mobil SHC Cibus than with the mineral hydraulic oil.



pass after 1,250 hours



ISO VG 46 Mineral Hydraulic Oil: result after 1,000 hours (actual initial failure at 500 hours)

Industrial Lubricants



Advancing **Productivity**^{**}

Safety

By providing long drain intervals, Mobil SHC Cibus oils can help limit potentially hazardous interaction between employees and equipment.

Environmental Care**

Through potentially helping to reduce energy consumption, Mobil SHC Cibus oils can help reduce the environmental impact of your operation.

Productivity

Long drain intervals and reliable equipment protection can help enhance uptime and hours of operation, which can help you boost production.

* Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

** Visit mobilindustrial.com to learn how certain Mobil-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

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