



Succeed in steel

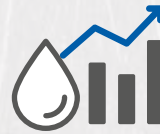
FILL WITH **Mobil**TM



Fill with collaboration



To consistently produce high quality metal plates and sheets requires precise, durable machinery that can withstand wear and tear.



We understand the demands of steel production and the challenges of maintaining efficiency while making sure your business operates sustainably.¹



Our advanced Mobil™ lubrication solutions are engineered to help customers reduce greenhouse gas emissions by lowering energy consumption, extending oil drain intervals (ODIs), using fewer spare parts, and boosting productivity.



We provide your business with the foundation it needs to thrive in steel.

¹ For more information, read how Mobil supports industries here - <https://www.mobil.eu/en-gb/sustainability/business>

Why Mobil?

More than lubricants

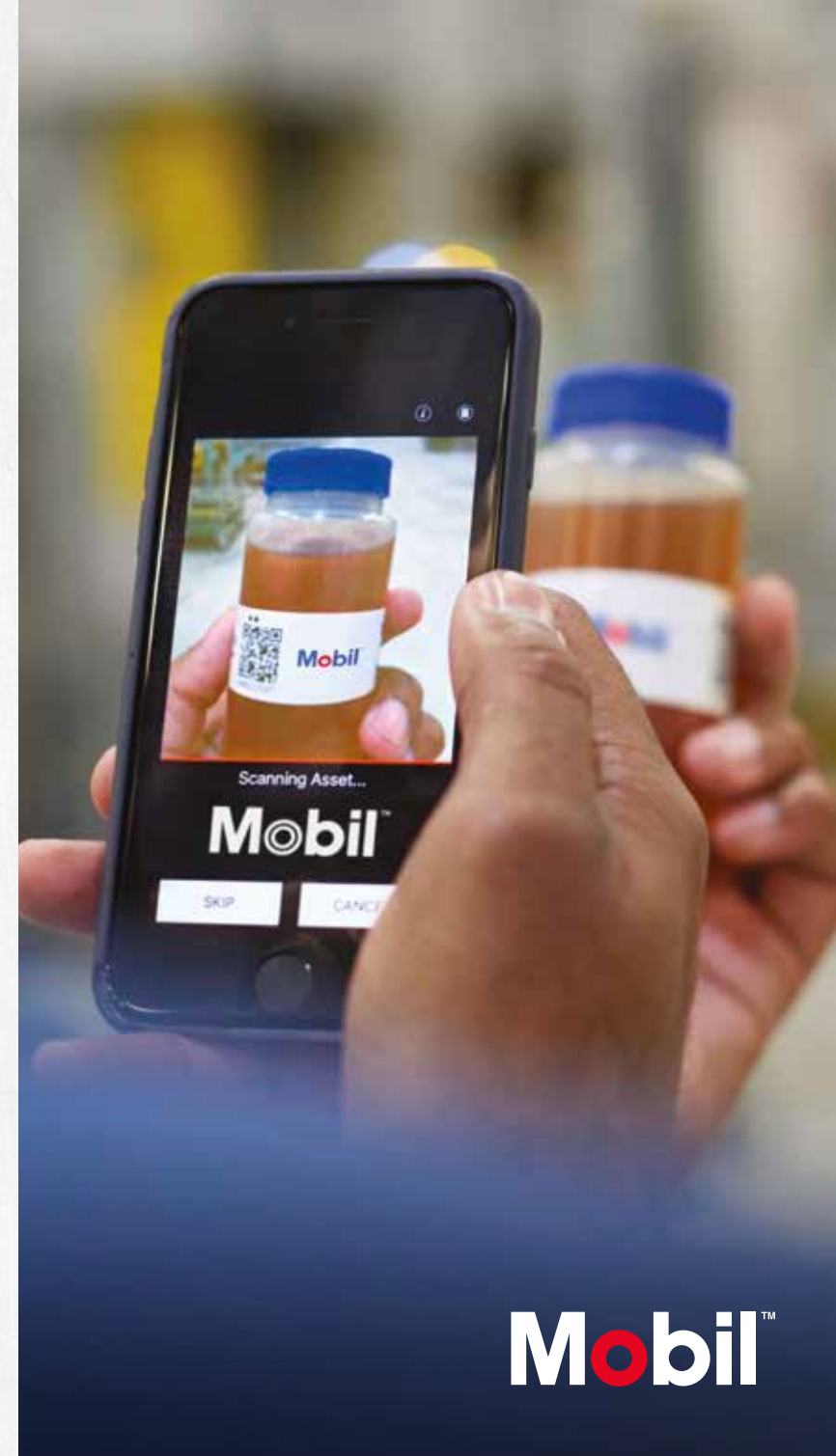
We're more than just a lubricant supplier—we're your partners. Whether you need help choosing the right products for your needs or require ongoing technical support, we're here to make sure you succeed.

Recommended by leading OEMs

Leading OEMs trust Mobil™ because we provide a reliable service they can count on. Our products are designed to meet the toughest industry standards, ensuring your equipment runs smoothly.

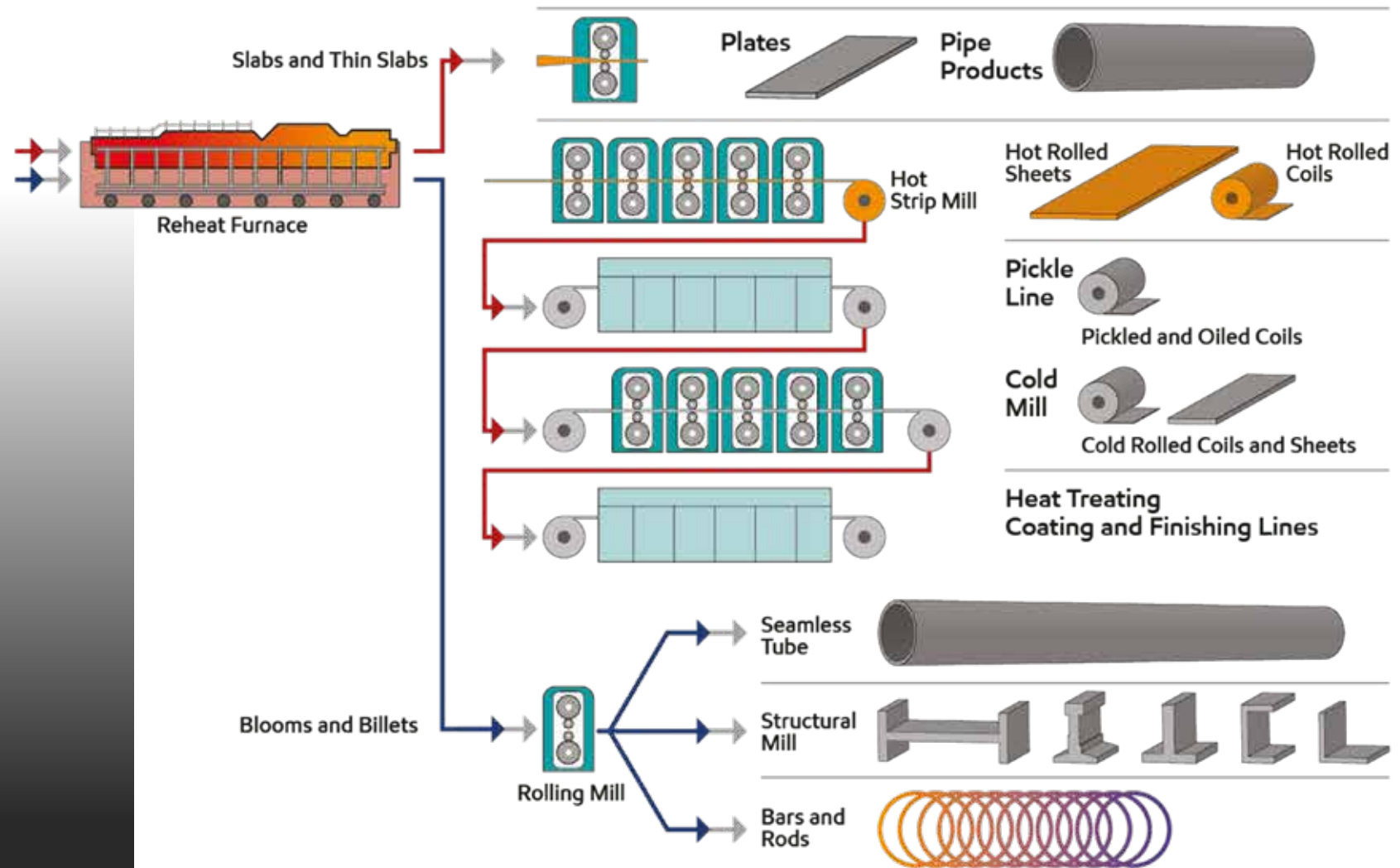
Advanced technical solutions

Mobil Lubricant Analysis monitors the condition of your lubricants and equipment, so problems can be spotted early and fixed. With sensor technology, you can receive critical real-time data on insights such as additive depletion or water contamination and emulsion. Monitoring performance in real-time between service intervals prevents wasteful malfunctions, streamlines logistics and reduces safety risks.



Mobil™

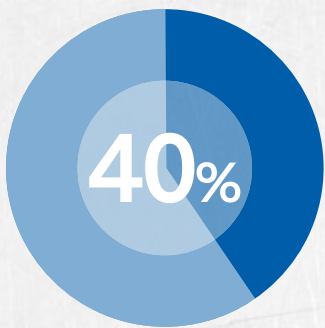
Steel rolling process



Lubricants for steel mills

In the high-pressure, high-temperature environment of steel rolling and production plants, each lubricant plays a crucial role in maintaining operational efficiency, durability, and cleanliness.

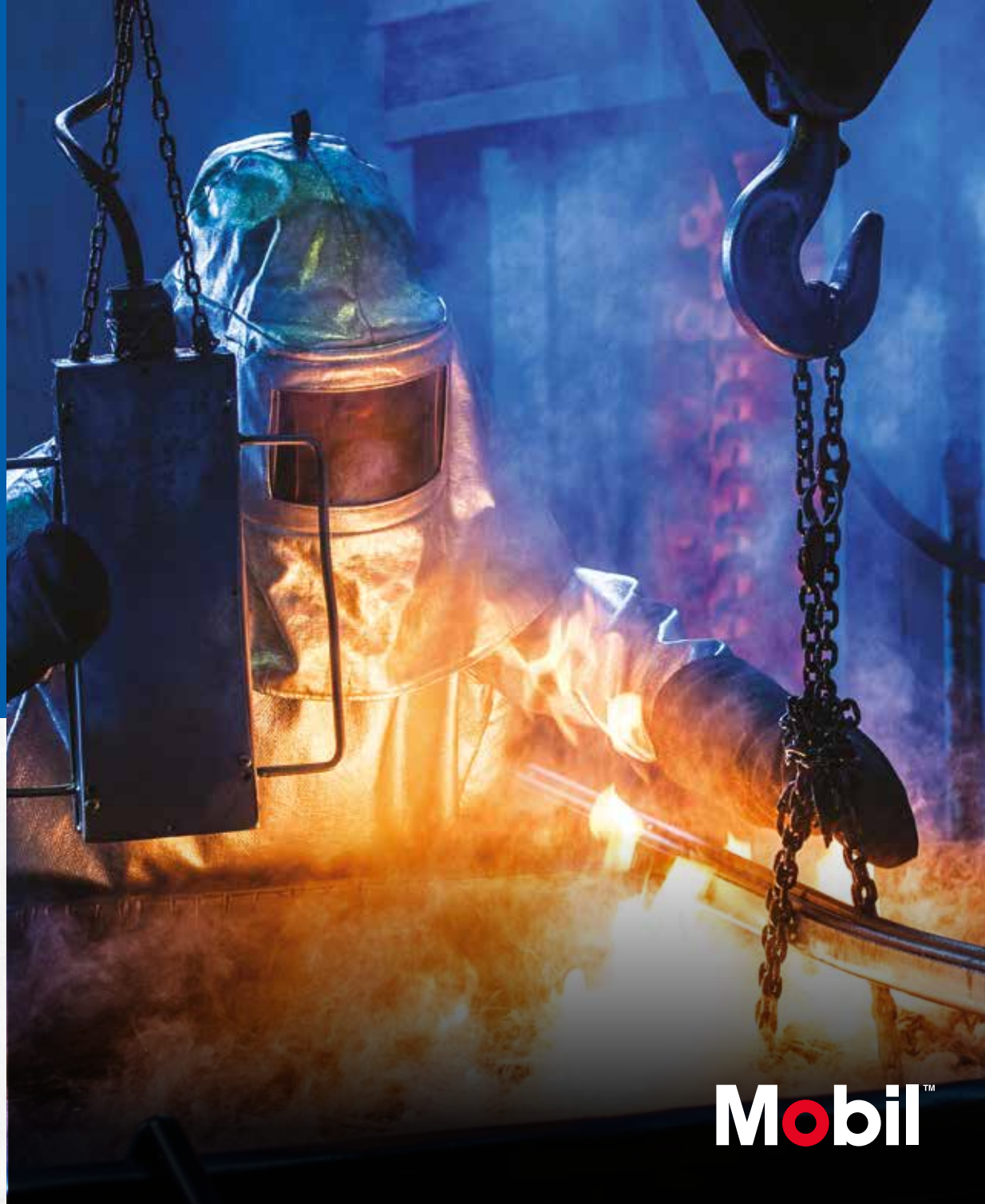
Driven by our expertise and commitment to a lower-emission future, we are introducing innovations across every stage of our products' lifecycle. These advancements help ensure optimal performance through lubrication solutions specifically tailored to meet the demanding conditions of steel production.



Less grease consumption

Mobil Centaur greases can help steel mills reduce bearing failures and grease consumption by up to **40%²**

² For more information, read how Mobil Centaur XHP 461 grease helps a steel mill reduce its consumption here - <https://mobil.co/mobil-centaur-xhp-461-reduce-consumption>



MobilTM

Count on us to extend the life of your equipment and keep operations running smoothly, all while optimising your total cost of ownership with³:



Reduced friction



Efficient heat and metal transfer



Enhanced water separation



Superior wear protection



Reliable equipment safeguarding



Improved system cleanliness



Extended oil drain intervals (ODIs)

³ This information is based on the experience of a single customer. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

Switch to Mobil lubricants and unlock the potential of your operations

With our comprehensive lubricant solutions and expertise, we can help you select the right products for your specific applications and requirements. Our range of lubricants is tailored to the unique conditions of steel production, where choosing the correct viscosity grade is essential for optimal performance.

Fire-resistant hydraulic fluids, specially formulated to minimise the risk of ignition and help to prevent the spread of flames, are critical for maintaining safe operations. In high-risk environments, such as continuous casting hydraulics in steel mills, these fluids provide essential protection against fire hazards, safeguarding personnel and equipment. Ensuring fluid compatibility is vital, as improper transitions between fluids can compromise both safety and effectiveness.

Using and managing these fluids responsibly enhances workplace safety and reduces environmental impact by preventing accidents and minimising resource waste.

4 For more information, read how Mobil DTE 20 Ultra Ultra series aids oil drain intervals, here - <https://mobil.co/pp-mobil-dte-20-ultra>








Up to **2x** extended oil drain intervals with Mobil³



MobilTM

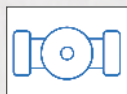
Mobil lubricants for steel

Explore below for specific product details and recommendations.

| Product | Approvals | Applications | Key Attributes |
|--|--|--|---|
|  Mobil Vacuoline™ 100 Series | <ul style="list-style-type: none"> • DIN 51517-2:2018-09 • Primetals Technologies Morgoil® Advanced (Rev 2.5a) & Standard (Rev 1.1) Lubricant Specification • SMS Group X-Roll® Oil Bearing-Advanced (SN 180-4) & Standard (SN 180-3) Lubricant Specification | <ul style="list-style-type: none"> • Back-up roll bearings in rolling mills, with heavy water contamination in single/dual tank systems | <ul style="list-style-type: none"> • Outstanding demulsibility • Good resistance to oxidative degradation • Excellent rust and corrosion protection |
|  Mobil Vacuoline™ 500 Series | <ul style="list-style-type: none"> • DANIELI Type 21-0.597654.F BGV No Twist Stand Block-TMB/TFS Rev 15 (Mobil Vacuoline 525) | <ul style="list-style-type: none"> • No twist rod mills • Moderate duty spur, bevel, helical and herringbone gear units • Circulating systems • Hydraulic systems employing gear, vane, radial and axial piston pumps | <ul style="list-style-type: none"> • Good rust and corrosion protection • Outstanding antiwear performance • Excellent water separation characteristics • High resistance to oxidation and thermal degradation • Multiple application capability |
|  Mobil Pyrotec HFD 46B | <ul style="list-style-type: none"> • FM Global, Approval Standard 6930 • Siemens TLV 9012 02 & 03 • Mitsubishi Power Ltd MS04-MA-CL004 (Rev.6) | <ul style="list-style-type: none"> • Hydraulic and oil circulation systems operating in conditions subject to fire hazards, where fire safety is critical • Other applications such as gas turbines, turbo-compressors, reactor coolant pumps, generators and steam turbines | <ul style="list-style-type: none"> • High ignition temperature and self-extinguishing capability • Exceptional oxidation resistance helps to extend oil life • Brilliant anti-wear properties |
|  Mobil Pyrotec HFD-U 46 | <ul style="list-style-type: none"> • ISO L-HF DU (ISO 12922:2020) • Blue Angel • FM Global, Approval Standard 6930 | <ul style="list-style-type: none"> • Hydraulic and oil circulation systems operating in conditions subject to fire hazards • Areas with increased risk of fire such as Continuous caster, Blast furnace & Reheating furnace | <ul style="list-style-type: none"> • Fire resistant • Excellent thermal and oxidation stability • System cleanliness and deposit reduction • Outstanding anti-corrosion and anti-wear properties |
|  Mobil Pyrotec HFD-U 68 | <ul style="list-style-type: none"> • ISO L-HF DU (ISO 12922:2020) • Blue Angel | | |



Hydraulic oils







Circulating oils



Gear oils





Greases

| Product | Approvals | Applications | Key Attributes |
|--|---|--|--|
|  Mobil Pyrotec HFC 46 | <ul style="list-style-type: none"> • FM Global, Approval Standard 6930 • ISO L-HFC (ISO 12922:2020) | <ul style="list-style-type: none"> • Hydraulic and oil circulation systems operating in conditions subject to fire hazards | <ul style="list-style-type: none"> • Inherent resistance to fire hazards • Excellent anti-wear properties • Long fluid life due to high oxidation resistance |
|  Mobil Centaur XHP™ 221 | <ul style="list-style-type: none"> • DIN 51825: 2004-06 KPF1-2G-20 | <ul style="list-style-type: none"> • Rolling element bearings in high-temperature machinery, with strong resistance to water washout and corrosion. | <ul style="list-style-type: none"> • Excellent resistance to water and corrosion • Exceptional mechanical stability • High load carrying properties • Excellent thermal stability |
|  Mobil Centaur XHP™ 460 Series | <ul style="list-style-type: none"> • DIN 51825:2004-06 - KPF 1 K -20 | <ul style="list-style-type: none"> • Ladle turret bearings • Continuous casters • Hot rolling work roll bearings • Roll necks • Couch, press and breast rolls | <ul style="list-style-type: none"> • Excellent protection under extreme pressure • Excellent oil bleed control at high temperatures • Advanced polymer additives to prevent washout • Absorbs water without compromising thickener consistency • Extended re-grease intervals, helping to reduce grease consumption |
|  Mobil SHC™ 600 Series | <ul style="list-style-type: none"> • Flender Gear units, T 7300 • SEW-Eurodrive • AGMA 9005-F16 • DIN 51517-3:2018-09 • ISO L-CKD (ISO 12925-1:2024) | <ul style="list-style-type: none"> • Filled for life gearboxes, especially high ratio/ low-efficiency worm gears • Remotely located gearboxes, where oil change-out is difficult • Mixer roll bearings and roll neck bearings | <ul style="list-style-type: none"> • High Viscosity Index helps enable exceptional low temperature performance, including start-up • Superb high temperature thermal/oxidation resistance helps extend oil life and reduce maintenance costs • Low traction coefficient helps reduce friction and increase efficiency in sliding mechanisms and rolling |

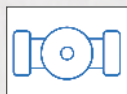
Mobil lubricants for steel

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|  Mobilgear 600 XP Series | <ul style="list-style-type: none"> ▪ Flender Gear units, T 7300 ▪ SEW-Eurodrive ▪ ZF TE-ML 27 ▪ AGMA 9005-F16 ▪ China GB 5903-2011, L-CKC, L-CKD ▪ DIN 51517-3:2018-09 ▪ ISO L-CKC (ISO 12925-1:2024) ▪ ISO L-CKD (ISO 12925-1:2024) | <ul style="list-style-type: none"> ▪ Industrial gearing for conveyers, agitators, dryers, extruders, fans, mixers, presses, pulpers, pumps, screen and extruders. | <ul style="list-style-type: none"> ▪ Enhanced gear and bearing wear protection ▪ High resistance to sludge and deposit formation provides cleaner systems ▪ Fewer grades of lubricant required because of wide range of application ▪ Optimised resistance to corrosion of steel, copper and soft metal alloys ▪ Resistance to foaming and emulsion formation |
|  Mobilith SHC series | <ul style="list-style-type: none"> ▪ NLGI 1.5 Grade / ISO VG 1500 ▪ NLGI 1.5 Grade grease with ISO VG 460 | <ul style="list-style-type: none"> ▪ Mobilith SHC 460: Synthetic, extreme pressure grease ideal for tough industrial applications needing water resistance. ▪ Mobilith SHC 1500: Synthetic grease for slow-speed bearings under high temperatures and heavy loads. Extends bearing life in severe applications like roll presses and kiln roller bearings. | <ul style="list-style-type: none"> ▪ Outstanding high temperature and low temperature performance ▪ Excellent protection against wear, rust and corrosion ▪ Excellent thermal stability and oxidation resistance ▪ Outstanding structural stability in the presence of water |



Hydraulic oils



Circulating oils



Gear oils



Greases



Mobil gear oils
help reduce
unscheduled
downtime⁵

⁵ For more information, read how Mobil Centaur XHP 461 helps reduce maintenance intervals
here <https://mobil.co/steel-mill-equipment-reliability>

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Fill with collaboration

Our field engineers offer expert advice on lubrication practices and provide hands-on support for troubleshooting equipment issues, ensuring your machinery operates at its optimal oil drain and maintenance intervals.

Chat directly with our team of engineers⁶
who can aid you in selecting the right
lubricant for your equipment.

Discover more at

mobil.eu

or email techdeskeurope@exxonmobil.com



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