

AeroShell

FOR HELICOPTERS

Shell Aviation



AT SHELL AVIATION, WE UNDERSTAND THE NEED FOR HELICOPTER LUBRICANTS WITH PROVEN PERFORMANCE.

A comprehensive range for simplicity and safety

The comprehensive AeroShell helicopter range is designed to make your life simpler and to keep you flying. It can help you to simplify your inventory and reduce the risk of using an incorrect product. Doing business with a single supplier can also make procurement easier and reduce administration costs.

Trusted from the start

Shell has been a pioneer in aviation fuels and lubricants for over a century. Generations of pilots have trusted AeroShell products in their aircraft. Engines and oil technology have changed, but our commitment to pilots remains the same, which is why you can trust AeroShell.

At Shell Aviation, we understand the need for helicopter lubricants with proven performance. Any failure of an aircraft's power plant, transmission or hydraulic system is unacceptable; in helicopters that often operate in confined, challenging and hostile environments, failure can be catastrophic. And during service, operators expect no unscheduled downtime. That is why we have developed a comprehensive range of high-performance products for helicopters:

- **AeroShell turbine engine oils** with third-generation AeroShell Turbine Oil 560 (ASTO 560) synthetic oil for reduced coking and improved wear resistance in modern jet engines
- **AeroShell Turbine Oil 555 (ASTO 555)**, an advanced synthetic oil with improved thermal and oxidation stability and increased load-carrying capacity
- **AeroShell piston-engine oils**, including AeroShell Oil W15-W50 premium multigrade, semi-synthetic, ashless-dispersant oil for excellent protection in extreme ambient temperatures
- **AeroShell greases**, including AeroShell Grease 14 multipurpose helicopter grease for protection against fretting and corrosion, which can be particularly prevalent in high-vibration helicopter applications and offshore or other corrosive environments
- **AeroShell hydraulic fluids**, including AeroShell Fluid 41 "super-clean" hydraulic fluid for improved performance.

ASTO 555 is a synthetic turbine oil with the load-carrying capacity essential for use in helicopter transmissions and gearboxes. It was developed for demanding jet engine applications, including those used to power Concorde, the world's first supersonic passenger aircraft. With the need to transmit more power and higher loads through helicopter gearboxes, it has become apparent that MIL-PRF-23699 oils may not be completely satisfactory, which led to the development of the DOD-PRF-85734A specification. Many helicopter manufacturers have turned to the high load-carrying capacity of ASTO 555, which meets the new specification.

AeroShell Grease 14 multipurpose grease is designed to protect against fretting and corrosion in helicopter applications. It uses a high-quality mineral base oil and a calcium soap thickener. It is inhibited against corrosion and oxidation, has special anti-rust additives and gives outstanding protection against fretting. AeroShell Grease 14 has a wide temperature range, meets the MIL-G-25537 specification and is approved by all the leading helicopter manufacturers. It is widely used as a multipurpose helicopter grease, particularly for most helicopter main- and tail-rotor bearings.

AEROSHELL FOR HELICOPTERS

TURBINE ENGINE OILS

TURBINE ENGINE AND TRANSMISSION OIL

PISTON-ENGINE OILS

GREASES, FULL RANGE INCLUDING

SPARK-IGNITION ENGINES

MULTIPURPOSE HELICOPTER GREASE

- ASTO 560**
- Synthetic
 - High thermal stability
 - Maintenance saving

- ASTO 555**
- Synthetic
 - High load-carrying capacity
 - High thermal stability

Higher temperature performance and reduced maintenance

- ASTO 500**
- Synthetic
 - MIL-PRF-23699
 - Outstanding temperature stability

BREAK-IN OIL*

AeroShell Oil 65, 80, 100, 120

- Straight grade mineral

- AeroShell Oil W15-W50**
- Semi-synthetic
 - Ashless dispersant
 - Multigrade

Greater temperature range and advanced corrosion protection

- AeroShell Oil W80 Plus, W100 Plus**
- Ashless dispersant
 - Advanced corrosion protection

Enhanced wear and corrosion protection

- AeroShell Oil W65, W80, W100, W120**
- Ashless dispersant
 - Mineral

- AeroShell Grease 14**
- Moisture resistant
 - Calcium soap

UNIVERSAL AIRFRAME GREASE

- AeroShell Grease 33**
- Synthetic
 - Multipurpose
 - Lithium complex

HYDRAULIC FLUIDS & PRESERVATIVE; FULL RANGE INCLUDING

AeroShell Fluids 3, 4, 31, 41, 51, 61, 71, Shock Strut, Landing Gear and 2F

Contact your Shell representative to find out about the full range of AeroShell oils, greases and fluids.
 *AeroShell Oils are used primarily during break-in of most new or recently overhauled four-stroke aviation piston engines and for a few engines that require them for normal operations.