

ExxonMobil

Lubricants & Specialties

Aviation Lubes Tech Topic

Shelf Life

The aviation lubricant shelf life is the recommended time period from manufacturing date during which ExxonMobil represents that the product is suitable for use (dispensing into equipment), providing the container has remained unopened, undamaged, and was stored indoors. The manufacturing date for all aviation products is on the Certificate of Analysis (COA).

The shelf life of a specific batch of product may be extended by ExxonMobil based on package style, package condition, known storage history, or test results from an approved laboratory.

Once the container is opened, the product should be protected from contamination and consumed within a reasonable time period. Since product degradation after opening depends on the product, storage and handling conditions, and potential contamination by the end user, the standard shelf life recommendations listed below are not applicable.

Some organizations, such as the US military, have their own periodic product retest requirements. These requirements may not coincide with the ExxonMobil shelf life recommendations. The ExxonMobil aviation lubricant shelf life recommendations are listed below. These supercede any previous recommendations.

Product	Shelf Life
Mobil Jet Oil II, 254, 291	10 years in quarts; 5 years in pails and drums
Mobil Turbo 284	10 years in quarts; 5 years in pails and drums
Mobil Turbo 319 A-2	10 years in quarts; 5 years in pails and drums
Mobil Avrex S Turbo 256	10 years in quarts; 5 years in pails and drums
Mobil Avrex M Turbo 201/1010	10 years in quarts; 5 years in pails and drums
Exxon Aviation Oil EE 80, 100, 120	10 years in any container
Mobil Aero Oil 80, 100, 120	10 years in any container
Exxon Aviation Oil 100 and 120	10 years in any container
Mobiloil Aero Red and Green Band	10 years in any container
Exxon Aviation Oil EE 20W-50 and 25W-60	10 years in any container
Exxon Aviation Oil Elite 20W-50	5 years in any container
Exxon Instrument Oil	5 years in any container
Exxon Invarol J13, FJ13	5 years in any container
Mobil Aero HFA, HF	5 years in any container
Mobil Aero HFS	5 years in any container
Exxon HyJet IV-A ^{plus}	10 years in quarts/gallons; 5 years in pails/drums
Exxon Coolanol 20, 25R	5 years in any container
Exxon Coolanol 35R, OS-59, 45R	5 years in any container*
Exxon M2-V	5 years in any container
Mobilgrease 27	2 years in any container**
Mobilgrease 28	6 years in any container**
Mobil Aviation Grease SHC 100	6 years in any container**

* When used in applications with critical dielectric property requirements, re-testing is recommended after three years.

**If oil is observed on top of the grease, it should be re-mixed back into the top inch (2.5 cm) of grease prior to use. Horizontally stored grease cartridges may bleed minor amounts of oil. This may make the container cosmetically unpleasing, but the grease remains suitable for use.