



SPENDING TOO MUCH ON MAINTENANCE?

AEROSHELL OIL W 15W-50 HELPS TO PROTECT AT
EVERY START-UP AND **ALL THE WAY TO TBO.**¹



Whether you are a professional pilot or fly occasionally for pleasure, selecting the right oil can protect the life of your aircraft engine. It can help to protect your engine and increase the likelihood of reaching TBO without incident.

AeroShell, the world's best-selling piston engine oils



AEROSHELL OIL W 15W-50
PROTECTS ON START-UP.⁵

INDEPENDENTLY PROVEN

Rigorously evaluated by independent experts

An independent report² proves the benefits of using semi-synthetic AeroShell Oil W 15W-50 compared with using a multigrade mineral oil.

In industry standard tests, it gives

- **more than 5x greater oxidation stability**,³ which means that it fights acid buildup, avoids thickening that can cause failure through oil starvation and retains its performance for longer
- **up to 60% less wear**⁴ to protect vital engine components
- **70% more load-carrying capacity** to prevent metal-on-metal wear by keeping highly loaded components apart.⁴

¹ Time before overhaul

² US Navy NF&LCFT Report 441/13-009, NAVAIR Lubricants Department, published September 2013

³ Industry-standard oxidation stability test (ASTM D2272)

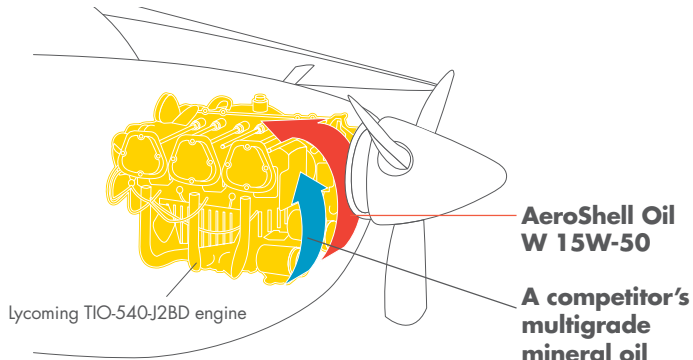
⁴ Industry-standard wear test (ASTM D4172)

⁵ Compared with a competitor's multigrade oil

START-UP PROTECTION

Most wear occurs at engine start-up.

AeroShell Oil W 15W-50 gets to critical parts faster than a competitor's multigrade mineral oil on start-up by reaching full pressure in the front oil gallery more than **25 seconds quicker at 0°C ambient temperature.**



BACKED BY A DEDICATED AVIATION RESEARCH CENTRE

To meet the needs of current and future pilots and aircraft engine technologies, Shell scientists conduct extensive research and testing at a dedicated aviation innovation laboratory in Shell Technology Center Houston, USA.

EXTENDED ENGINE LIFE

Excessive scuffing can lead to an expensive, premature engine overhaul.

AeroShell Oil W 15W-50 contains an ashless antiwear additive, conforming to the Lycoming LW-16702 specification.

The complete additive package helps to prevent corrosion and deposits for extended engine life. Additive remains on the engine's components to offer start-up protection from damaging wear.

Analysis shows that a competitor's multigrade mineral oil lacks these elements. This leaves engine components without an antiwear additive coating at start-up, which contributes to its poor wear performance.

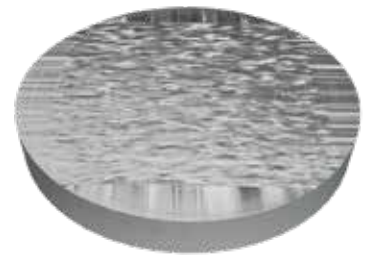
In tests, AeroShell Oil W 15W-50 offers

- **at least 5x better scuffing protection** compared with a competitor's multigrade mineral oil.

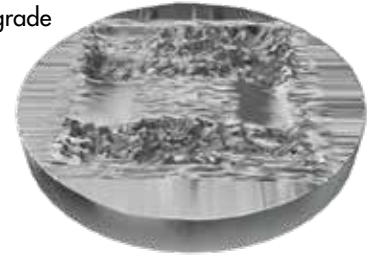
The oils were tested on a rig that simulates the high-pressure cam-lifter contact during start-up. You can see **AeroShell Oil W 15W-50's superior wear protection** by comparing the wear scars.

Lifter test (amplified)

AeroShell Oil W 15W-50



Competitor's multigrade mineral oil



CHOOSE AEROSHELL OIL W 15W-50 TO PROTECT YOUR ENGINE TODAY



AeroShell



For further information, please contact your AeroShell representative or visit:

www.aeroshell.com