

GE CF34

Mobil Jet™ Oil II outperforms competitive Type II oil

Summary

Despite more hours and more cycles, Mobil Jet Oil II lubricant provided superior performance with negligible deposits compared to competitive Type II oil.

Oil comparison details

Oil in use	Mobil Jet Oil II	Competitive Type II oil
Aircraft type	Regional jet	Regional jet
Engine hours	17,991 (total hours)	14,497 (total hours)
Engine cycles	14,988 (total cycles)	12,592 (total cycles)
Since last repair	2,657 cycles	Estimated 3,000 cycles
Oil change	None	None
Removal	Scheduled	Unknown

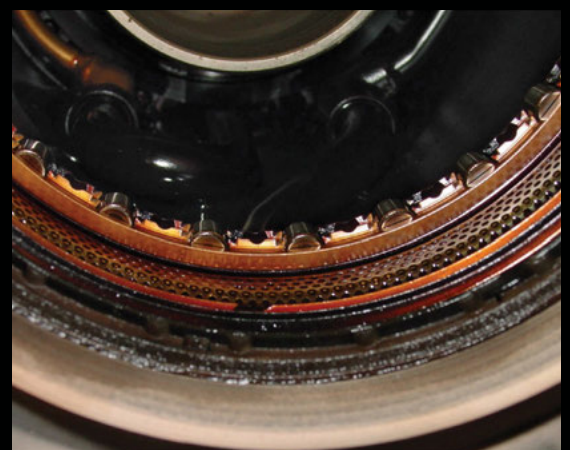
Engine inspection results

- 1** All compartments, carbon seals and oil lines in the engine lubricated with Mobil Jet Oil II lubricant were in excellent condition with negligible deposits.
- 2** The GE CF34 engine on the competitive Type II oil exhibited moderate to heavy deposits in the No. 4, 5, 6 and 7 seal/bearing compartments. The No. 7 carbon seal was also cracked, requiring replacement.
- 3** The turbine rear frame scavenge tube exhibited carbon deposits and a reduction in area.
- 4** Jet engine oil should allow an operator to achieve normal and acceptable engine performance without incurring additional maintenance or operational costs.

No. 5 carbon seal and bearing



Mobil Jet Oil II



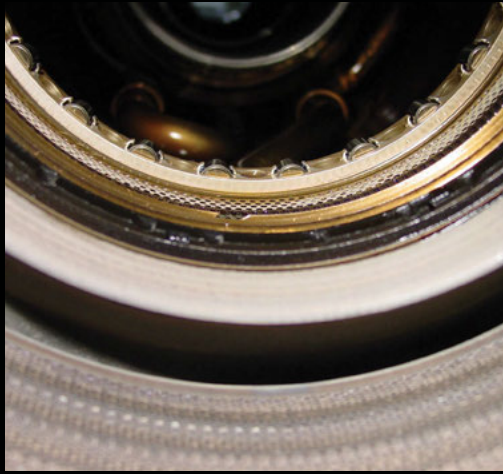
Competitive Type II oil

Mobil Jet™

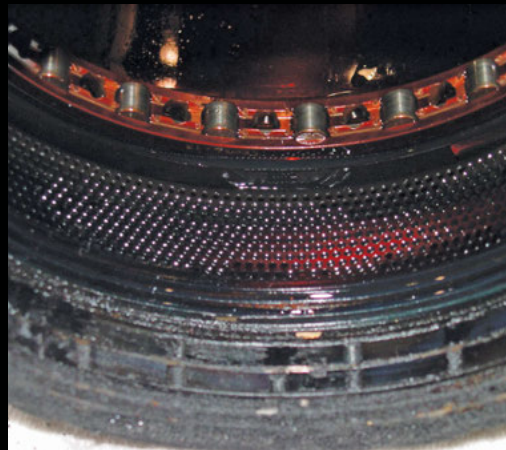
Technology by **ExxonMobil**

GE CF34

No. 4 and 6 carbon seal and bearing

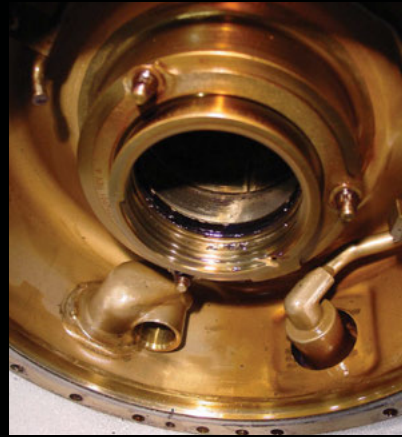


Mobil Jet™ Oil II. No. 4 carbon seal and bearing.

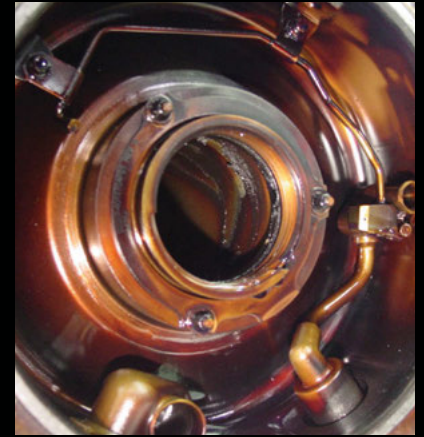


Competitive Type II oil. No. 6 carbon seal and bearing.

No. 7 carbon seal and bearing



Mobil Jet Oil II



Competitive Type II oil

Turbine rear frame scavenge tubes



Mobil Jet Oil II



Competitive Type II oil

Conclusion

Actual in-service performance is the final and most important indicator of how well oil keeps a jet engine running. Mobil Jet Oil II lubricant has provided outstanding performance in aircraft-type turbine engines for more than 50 years. It is the lubricant of choice for many of today's leading airlines.

A comparison of Mobil Jet Oil II lubricant and a competitive Type II standard oil in two GE CF34 engines confirmed Mobil Jet Oil II lubricant's superb performance.

For more information

Please contact your ExxonMobil aviation sales representative.