European Piston Engine Fleet

Your safety is our mission.

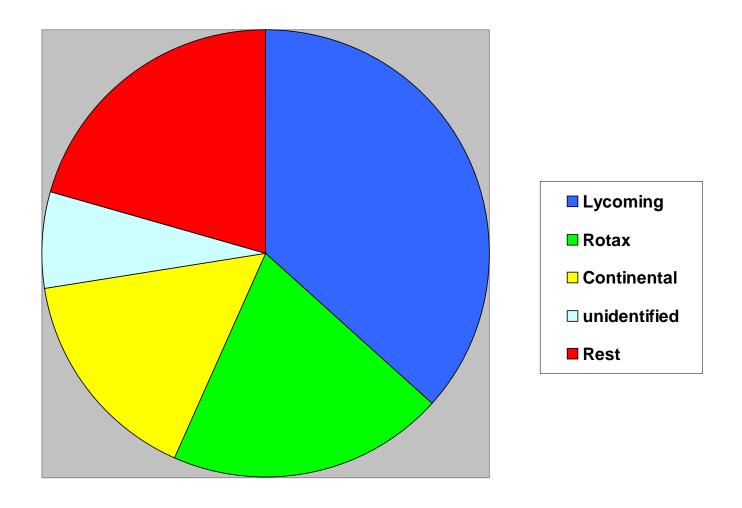
- **▶** Introduction
- ➤ Results
- ➤ Conclusion for European Fleet

Introduction

- Request for information about European piston engine fleet required for evaluation of its fuel needs
- Problems
 - No single European aircraft register
 - No data provided by Italy, Greece, Czech Republic
 - Incorrect or missing engine designations
 - No data about engine utilisation available (no fleet hours)
 - ➤ No data about N-registered aircraft operated in Europe
- ➤ EASA Safety Analysis & Research Department Agency generated Excel list of engines installed in aircraft registered in EU member states (except I, GR, CZ), Iceland, Norway, Switzerland

Results

- ➤ Total number of piston engines: 54109
- ➤ Total number of unidentified engines: 3792
- ➤ Continental engines: 6711 (single) + 1776 (twin) (incl. 591 RR Conti.) = 8487 engines
- Lycoming engines: 18254 (single) + 1658 (twin) = 19912 engines
- > Rotax engines: 5313 (2 stroke) + 5510 (4 strk.) = 10823 engines
- Total minus Lycoming/Continental/Rotax = 14887 engines





➤ Total number minus Lycoming/Continental/Rotax: 14887

➤ Total number of unidentified engines: 3792 14887 - 3792 = 11095 rest

➤ Solo engines: 1741

➤ Limbach engines: 1199

➤ TAE 125 engines: 749 (diesel engines)

➤ M-14/AI-14 engines: 689

➤ Gipsy Minor engines: 570

➤ ASz-62 engines: 473

➤ LOM Praha engines: 429

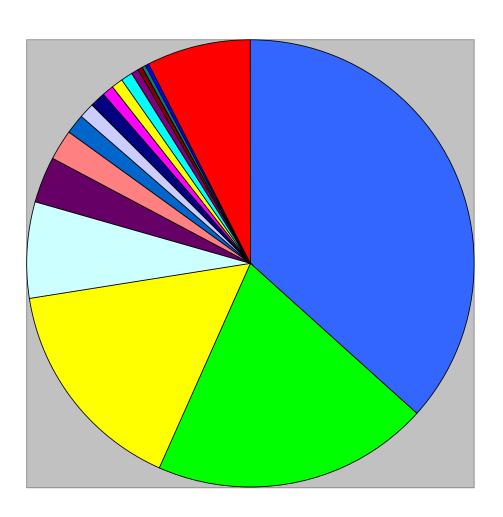
VW Beetle derived: 420

➤ P&W radials: 281

➤ Fuji-Robin engines: 163

➤ Hirth two stroke: 147

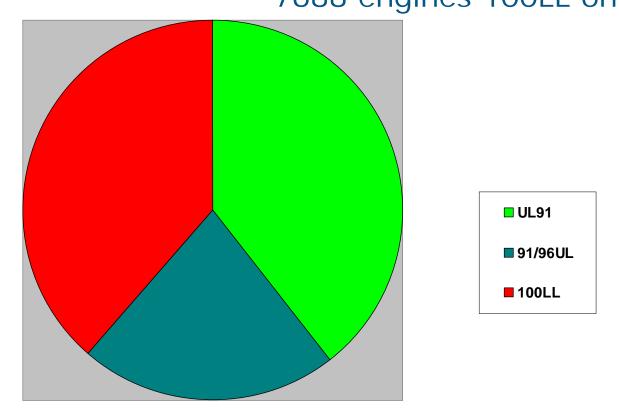
➤ Franklin engines: 121 other: 4113



- Lycoming
- Rotax
- □ Continental
- unidentified
- Solo
- Limbach
- TAE 125
- M-14/AI-14
- Gipsy Minor
- Asz-62
- □ LOM Praha
- VW Beetle
- P&W radials
- Fuji-Robin
- Hirth 2stroke
- Franklin
- other



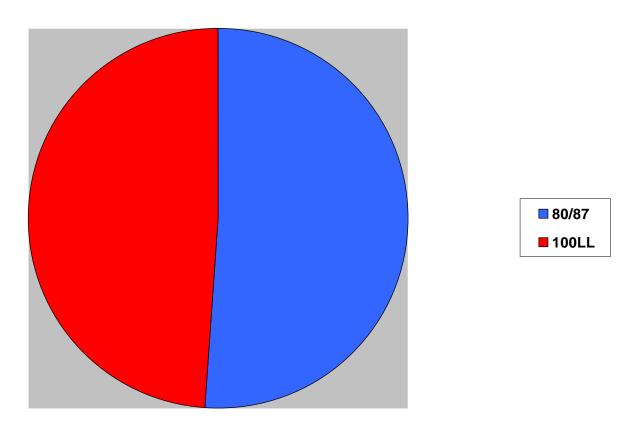
Lycoming engines: 19912 engines total
7871 engines UL91, 91/96UL, 100LL
4353 engines 91/96UL, 100LL
7688 engines 100LL only





➤ Continental engines: 8487 engines total

8487 engines total 4345 engines 80/87 4142 engines 100LL only



Conclusion – European Fleet

▶ UL91 engines:

7871 Lycoming 4345 Continental (?) 10823 Rotax 3000 other?

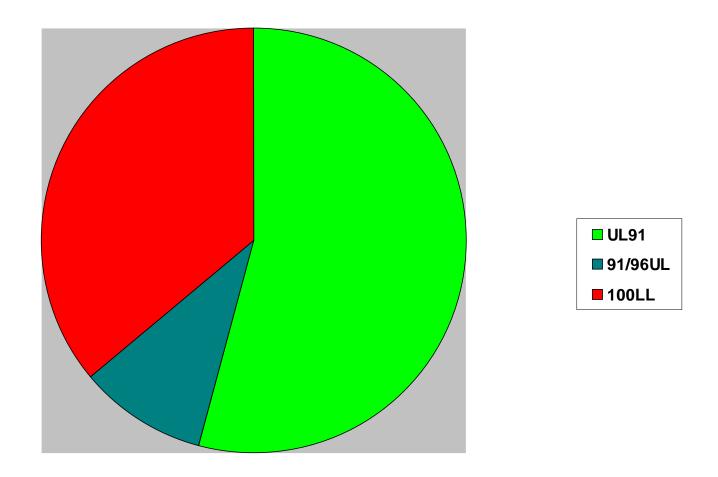
▶ 91/96UL engines:

4353 Lycoming 473 ASz-62 xxx other?

➤ 100LL engines:

7688 Lycoming 4142 Continental 4000 other?

➤ Estimate for European fleet







EASACologne - Germany

Thank you very much for your attention!