

Accident # ERA23FA358 Engine Evaluation

Continental I0360ESS6 S/N 357556, N420PB

1. Both Magnetos exhibited thermal damage and were melted internally. Minimal rotation was achieved due to fire damage.
2. #5 cylinder intake tube displayed impact damage, and the valve boss was fractured due to impact.
3. #5 cylinder intake tube was crushed.
4. The Fuel control was separated by impact.
5. Fuel was present in the fuel divider.
6. The engine was rotated by hand at the propeller and continuity was established from the powertrain through the valvetrain to the accessory section.
7. Compression was confirmed in all cylinders using the thumb method except for the #5 cylinder, which was damaged by impact.
8. The #1 cylinder upper aft through bolt was displaced by impact and the nut on the case side was fractured.
9. High pressure fuel pump was displaced by impact and removed. The pump rotated freely by hand the internal vanes were intact.
10. The external engine oil filter was destroyed by impact and fire.
11. The internal engine oil screen was removed and found clear of obstructions or debris.
12. The propeller was removed for further examination. Oil was present throughout the engine.