

»» Service Bulletin

FAA Approved

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Subject: Fuel Contamination

Application: All Reciprocating Aircraft Engines

Compliance: Immediately upon discovery of contaminated fuel use.

Scope:

Aircraft engine damage or malfunction due to the use of unsuitable fuel is a serious condition which, if left uninspected, can result in catastrophic consequences. The extent of damage, impossible to detect without disassembly and inspection, depends on many parameters, including type of fuel contamination, time operated, power operated, and detonation damage.

Superior Air Parts recommends that any engine operated on contaminated fuel, or on fuel of lower grade than that approved for the engine, be completely disassembled for detailed inspection. This is especially true for engines operated on fuel contaminated with kerosene (jet fuel). If the airworthiness of Superior components potentially damaged by fuel contamination can not be confirmed, Superior Air Parts recommends scrapping those components.

Damage in the combustion chamber from excess heat can include burned pistons, cracked cylinder heads, and tuliped intake valves. Damage from detonation requires scrapping pistons, piston pins, valves, cylinders, bearings, rods, crankshaft, counterweights, and valve train components. All parts scrapped due to the excessive temperatures and loads imposed by detonation should be destroyed.

WARNING: Failure to comply with this Bulletin could have catastrophic consequences.

For further information please contact your nearest Superior Air Parts, Inc. Customer Service and Technical Center at 1-800-420-4727.