

## **RigMaster longevity**

Here's some common causes of component failures in RigMaster APU's which are mostly maintenance related that cause a number of problems including: corrosion, Generator shorting, Generator overheating and other component damage.

### **Environmental**

- Generator failures due to water having been in the Generator when it was running are usually caused by power washing or steam cleaning the inside of the engine cabinet or driving in extremely wet environments for extended periods. If there is a possibility that water may be inside of the Generator it must not be operated. The Generator interior must be blown out ensuring that it is dry before running. Never use any solvent or liquid inside of the Generator.
- Generator failures due to dirt having been in the Generator when it was running. This condition causes overheating due to inadequate ventilation and an "out of balance" rotor. The inside of the Generator should be blown out with compressed air during oil changes at 500 hour intervals. Some people will cut the plastic Generator end cap into 2 pieces with a zip wheel (leaving a screw in each piece) so that it can be removed easier.
- Generator failures due to exhaust soot deposits cause grounding of windings due to extended operation of RigMaster with failed exhaust components. Monitor the condition of Engine Vibration mounts and flexible exhaust components and replace them when wear is detectable.



Engine mounts and shock pads

- Failed engine vibration mounts and shock pads under the engine mount plates (the Generator and AC Compressor are mounted to these plates). Failed mounts and shock pads will cause damage to the Generator, AC Compressor, Water Pump, Fan and Exhaust components by transmitting vibration and shock forces and allowing excess movement. The condition of the mounts can be checked by prying up these engine mount plates, if they easily lift more than about 3/4", they should be replaced.

Part #'s: Engine Vibration mount:RP11-002, Shock Pad RP11-003.

- There are 4 of these mounts and pads in RigMasters that have 2 v-belts driving Compressor and Generator.

- There are 5 of each of these mounts and pads in RigMasters that have a Serpentine belt driving these components.

The use of preservative products such as silicone lubricant spray on most components (except belts) will help control corrosion.

Engine Vibration mount:RP11-002



Shock Pad RP11-003

