

## **WATER DAMAGE TO POWER TEAM HIGH FORCE TOOLS & EQUIPMENT**

‘Guidelines in what to do in the event of flooding or water damage’

### **Electric/Hydraulic Power Units & Equipment:**

Water damaged Power Team electrical equipment is normally presumed to be beyond repair. In many cases the water has been contaminated with soil, debris, chemicals, sewage, oil or other substances.

- Due to unknown levels of contamination & contaminants the equipment should not be sold as new even if rebuilt/refurbished.
- The effects of the water damage may not show until months later, even after rebuilding.
- Ground continuity, insulation resistance and High Pot tests are done at the factory and it is assumed these are unlikely to be done during reassembly here.
- Parts will be rusted, bearings could be contaminated and the internal contamination can cause electrical problems.
- The motors would need replacement due to rust & contamination which could cause electrical & balance problems.
- Electrical/Mechanical parts should not be reused.
- Housings (plastic & metal), electrical cords & wires, couplings, bushings, gear reducers, mounted bearings, manual valves & fittings without rust and aesthetically correct can be returned to service only following proper cleaning, re-lubrication, repair or replacement.
- All parts that can and have absorbed water should be baked to remove moisture.
- Check oil reservoir for signs of water ingress and if needed remove the pump & thoroughly clean the reservoir & strainer, refill with approved Power Team oil, reassemble and then test for function.
- Soap & water or a mineral based cleaning product can be used to clean all parts but not to remove rust.

To take proper corrective action a working knowledge of electrical systems and of Power Team equipment is required to properly assess damage. An authorized Power Team service technician & a licensed electrical contractor knowledgeable in this type of work should be engaged to evaluate & repair or replace the water damaged equipment.

### **Air motors, valves & equipment:**

An authorized Power Team service technician knowledgeable with air motors & equipment should be engaged to evaluate & repair or replace the water damaged equipment.

- Due to unknown levels of contamination & contaminants the equipment should not be sold as new even if rebuilt/refurbished.
- Parts will be rusted, bearings could be contaminated and internal contamination can cause operating problems.
- Disassemble motors and valves and inspect for rust & contamination.
- Soap & water or a mineral based cleaning product can be used to clean all parts but not to remove rust light rust can be polished out and the parts oiled prior to reassembly.
- Replace motor vanes and seals, gaskets, shims, springs, filters & mufflers.

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## Power Team Hydraulic Cylinders:

An authorized Power Team service technician knowledgeable with Power Team Single & Double acting cylinders should be engaged to evaluate & repair or replace the water damaged equipment.

### Double Acting Cylinders:

- Double acting cylinders should be OK providing the appearance on the outside is acceptable. Packaging should be replaced and if there is no appearance of rust the units should function normally without disassembly.
- Test cylinder per test procedure.

### Single Acting Cylinders:

- The single acting cylinders need to be disassembled and inspected for rust and contamination.
- Light rust in bores can be polished out and units reassembled.
- Replace the seals on any unit disassembled.
- Springs should not be reused if pitted with rust. Do not clean spring with acid to remove the rust this will cause Hydrogen Embrittlement and lead to early spring failure.
- Clean with soap and water or a mineral based cleaning product.
- Test cylinders per test procedure.
- Oil all parts during reassembly.
- Replace damaged packaging.
- Test cylinder per test procedures.

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