**Why flush the system?**

**REASONS**

- **RIGHT-FIRST-TIME REPAIR**
  - Avoid damaging and expensive repeat repair of the system if you can avoid it and save you and your customer’s money.

- **WHEN INSTALLING A NEW COMPRESSOR**
  - Because if the improper installation of lubrication, it is strongly recommended and required by many compressor providers to flush the system when installing a new compressor. Installing a new compressor in a contaminated system will cause the new part to fail quickly.

**SYSTEM FLUSHING**

- **PERFORMANCE**
  - In general, to perform properly the AC system must be clearly clean inside the loop.

- **PERFORMANCE**
  - Refrigerant and oil in the system are high temperatures and pressure, as well as components with precise tolerances. Any contamination or moisture/foreign additives can cause close clearance section to seize, clog or cause the system to not work properly.

- **PROPER LUBRICATION**
  - Lubrication is absolutely crucial for the compressor’s reliable and efficient mechanical parts of the compressor’s wear the bearings are designed to work in a tight fit, with a thin lubricating oil film on the surface enabling high load capacity properly and avoiding resistance at high temperatures.

- **CAUTION**
  - The system need to be thoroughly cleaned because any impurities may cause the mechanical parts to seize, clog or cause the system to not work properly.

**STEPS & RECOMMENDATIONS**

- **RECOMMENDATIONS**
  - Causes of the most common system contaminants that require immediate flushing:

  - **Chemical reaction** - reaction between moisture/oil and refrigerant/oil or UV dye, no/improper vacuum was done.

  - **Compositional issues** - improper/additives such as leak stop agents, UV dye or additive such as leak stop agents, UV dye or additive.

  - **Guaranteed or improper** - resulting in contamination of the AC system.

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