



Technical Bulletin

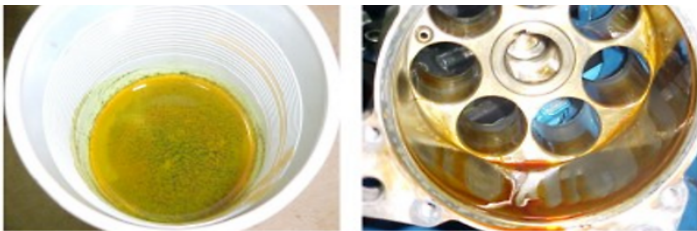
Compressor

Vehicle Type

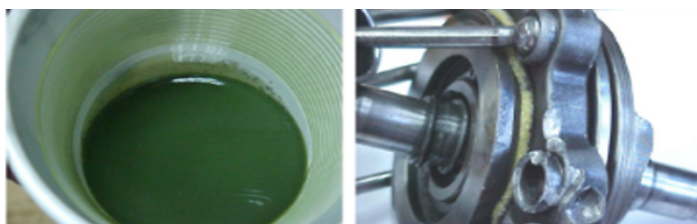
All Vehicle

Compressor Failure Analysis

Here we will see the different and most common failure modes and causes of a compressor unit one by one.



Symptoms	Orange-colored oil
Diagnosis	System contaminated with water
Possible causes	• Dryer full of water (no replacement) • Vacuum process never completed or wrong process or too short



Symptoms	Dark green colored oil
Diagnosis	Fracture of the piston push rod

Possible causes

Wrong oil



Symptoms

Traces of scratches on pistons or pistons seizure

Diagnosis

Overheated compressor

Possible causes

- Too little refrigerant
- Too little oil
- Clutch failure



Symptoms

Sticker partly burnt and overheated+visible hot spots

Diagnosis

Compressor seized or blocked

Possible causes

- Condenser is dirty
- Problem with the fan
- Leaking shaft sealant
- Too much refrigerant



Symptoms	Silver colored oil
Diagnosis	Defective compressor, large metals debris in the mixture of the refrigerant and oil
Possible causes	Unusual operating conditions • Wrong oil • Lack of servicing



Symptoms	Dark marks on HP valves
Diagnosis	Temperature and pressure too high
Possible causes	• Condenser is dirty • Problem with the fan • Leaking shaft sealant • Too much refrigerant in the system



Symptoms	Sludge inside the compressor or metallic filings
Diagnosis	Damaged compressor

Possible
causes

- No rinsing/ no cleaned system
- Insufficient rinsing of the system after replacing the compressor