



## Maintenance Bulletin (MB-0042-01)

### 4UFC to 6NFC oil change out procedure

Version 1. June 2017

#### Purpose

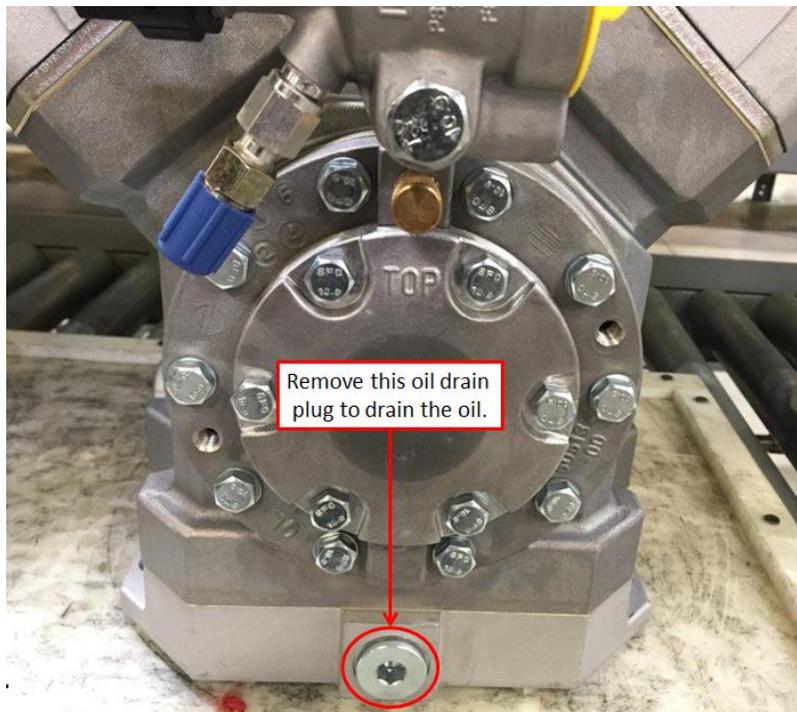
This document provides instructions for oil change in the field. However, based on decades of experience we recommend that the following oil change is carried out approx. every three years or 10,000 .. 12,000 operating hours.

#### Warning!

The compressor will be under pressure with a refrigerant charge above atmospheric pressure. Incorrect handling may cause injury to skin and eyes. Only properly trained personnel should open systems containing refrigerant. Always wear proper safety equipment while working on the compressor.

#### Required Tools

- Manifold Gauges
- Vacuum Pump
- Refrigerant Recovery Machine
- Hand-Operated Oil Pump
- Service Valve Wrench
- Allen Key (10mm)
- Torque Wrench
- Drain pan

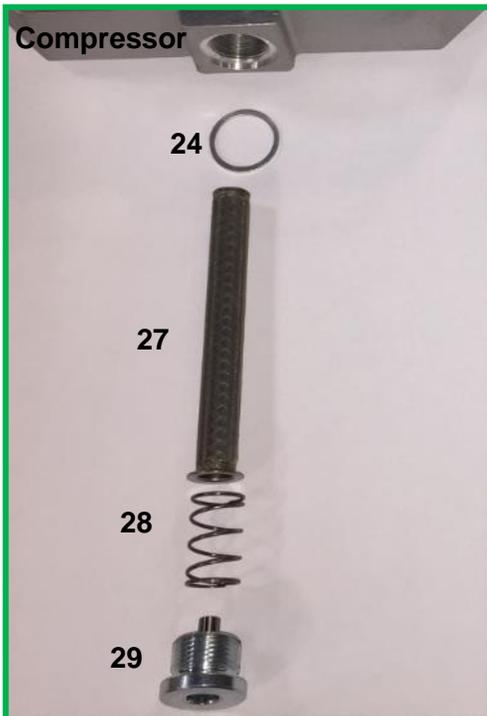


## Oil draining procedure

- 1- To drain the compressor oil, first perform a compressor pump down. Avoid releasing refrigerant into the atmosphere. If necessary, a refrigerant recovery machine must be used to extract refrigerant from the compressor.
- 2- Place a drain pan under the compressor and then remove the drain plug (29). Allow the compressor oil to drain completely and dispose it properly.
- 3- If necessary, also empty the oil reservoir at the shaft seal.
- 4- Clean the oil strainer (27) and the magnetic oil plug as well.

## Oil charging procedure

- 1- Replace the gasket ring (24) on the drain plug.
- 2- Install the oil strainer (27), pressure spring and the oil plug (tightening torque 30 lbf-ft).
- 3- Use only new oil drums in their original unopened state.
- 4- The oil charge can be performed either by using a hand-operated oil pump or vacuum process. Any penetration of air into the system and oil drum must be avoided under all circumstances. Only use oil that is approved by BITZER.
- 5- The recommended oil type should be added to the compressor through the oil service port until the oil level is at  $\frac{1}{2}$  sight glass (on level surface) which corresponds to 88 fl. Oz.
- 6- Evacuate the compressor suction and discharge pressure sides to using the vacuum pump maintaining a 1.5 mbar or lower.
- 7- Open the shut-off valves.
- 8- The compressor is now ready to be operated again.



Item	Description	Part #
24	Gasket ring	382403-05
27	Oil strainer	36200302
28	Pressure spring	325000-01
29	Oil plug/ magnetic	366124-51

