



Service Bulletin SB0077

Date: September 2005
From: Capstone Technical Support
Subject: Copeland Horizontal FGB Compressor Oil Level

Affected

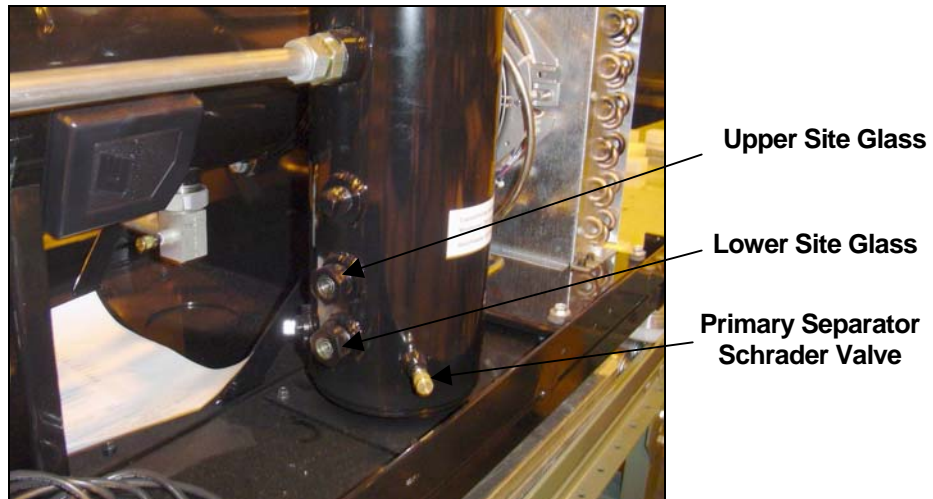
All Copeland Horizontal Fuel Gas Boosters (FGB) compressor units.

Summary

The FGB compressor oil level must not exceed the recommended levels or the compressed gas going into the MicroTurbine will be contaminated with oil.

Perform a visual check of the upper and lower site glass to make sure levels are appropriate:

- Under normal operating conditions (~1,800 RPM), the oil level should be near the center of the lower site glass. If the lower site glass is less than 50 percent, add compressor oil to this level.
- At full speed (~4,800 RPM), the oil level should be near the center of the upper site glass and the lower site glass should be 100% full. If the upper site glass is less than 50 percent, add compressor oil to this level.



NOTE: For further technical details on the Copeland Horizontal FGB, please refer to the "Horizontal Gas Booster Technical Reference," 410047-001. If the compressor needs removal, please refer to the "Horizontal FGB Compressor Replacement Work Instruction," 440127-001 for further details.

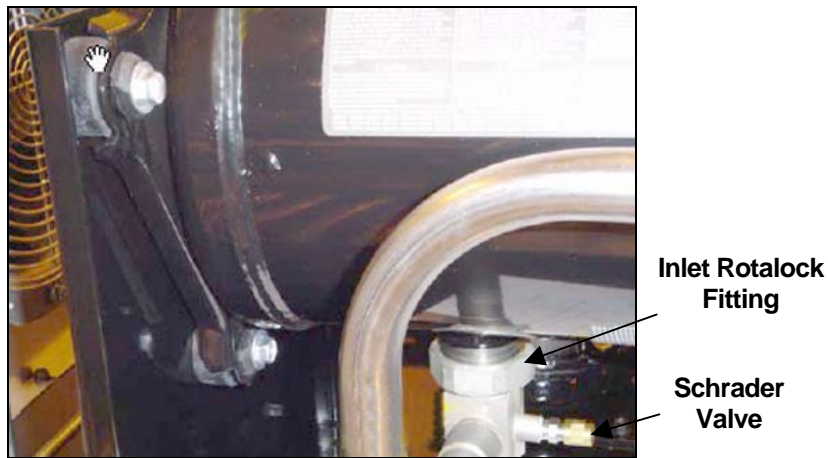
If the oil levels are too high, and must be reduced, perform the following steps:

First Stage Oil Separator

1. Close the ball valve that is located in the oil transfer hose.
2. Remove the protective cap from the Schrader valve located on the side of the first stage oil separator and place the other end of the hose into a suitable container.
3. Open the ball valve and remove the first stage separator oil.
4. Close the ball valve, disconnect the oil transfer hose from the Schrader valve and replace the protective cap.
5. Initiate FGB operation and re-examine oil levels from the upper and lower site glasses. Perform steps listed above as required.

Compressor Oil

1. Close the ball valve that is located in the oil transfer hose.
2. Remove the protective cap from the Schrader valve located on the side of the inlet Rotalock fitting and attach one end of the hose. Place the other end of the hose into a suitable container.



3. Open the ball valve and remove the compressor oil.
4. Close the ball valve, disconnect the oil transfer hose from the Schrader valve and replace the protective cap.
5. Initiate FGB operation and re-examine oil levels from the upper and lower site glasses. Perform steps listed above as required.

Responsibility

It is Capstone's responsibility to provide this Service Bulletin containing description of the problem and a recommended solution to Capstone's Authorized Service Providers.

It is the Authorized Service Provider's responsibility to notify the customer, schedule a site visit, and perform the required service to remedy the issue.

It is the responsibility of the Authorized Service Providers to provide Capstone with a Field Service Report upon completion of the upgrade.

Capstone Technical Support

If you have additional questions or need further assistance, please call Capstone Technical Support:

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