

Service Information No. 10/08a

Date: September 11, 2008

Venting of Pressure Pipes

GENERAL M20 – M43C

Air inclusions in the sensor line may cause starting difficulties or unintentional emergency stops of the diesel engine because the air cushion in the media ducts can lead to incorrect sensor measurements. Especially after longer downtimes, service work or commissioning it may be necessary to remove any existing air from the media duct. In order to ensure reliable starting and proper monitoring of the engine we recommend to vent the media ducts to the pressure sensors at regular intervals of at least three months.

Attention:

Personnel: This work may be carried out by qualified personnel only.

Safety: As warm medium will leak out during venting and might cause injuries, appropriate measures such as wearing safety glasses and protective gloves are to be taken.

Environment: To prevent spillage a collection container and cleaning rags are to be kept available. Stay clear of hot engine surfaces.

General: Venting of the pressure pipes shall not be carried out while the vessel is in operation because unintentional emergency stops may occur.

Procedure:

- In order to generate the required primary pressure for testing/venting the standby or pre-lubrication pumps are to be started.
- When pressure is applied, the test connections of the pressure sensors can be opened easily until the medium leaks out of the test connection without any bubbles.

Depending on the engine type there are 2 possibilities for venting:

- Pressure sensor with **connection block** for M20C, M25C, and M/VM43(C)
- Pressure sensor with **test valve** for M20, M25, M/VM32(C)

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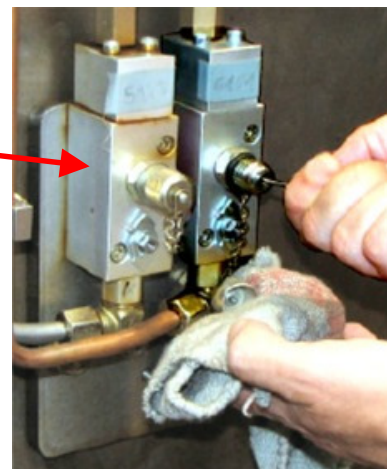
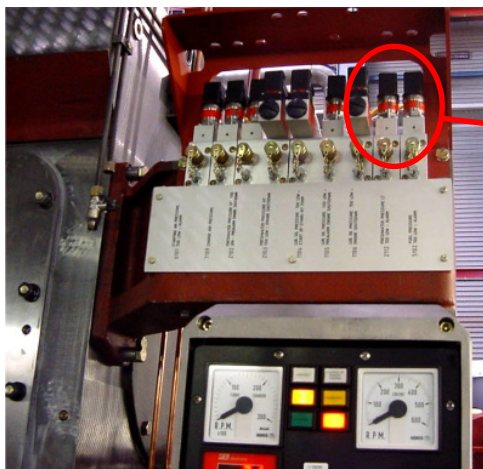
GENERAL M20 – M43C

Pressure sensor with connection block (for M20C, M25C, and M/VM43(C))

The protective cap on the connection block is to be removed. The test valve is to remain open. When there is pressure, press into the test valve by means of a small pin (or pin punch, 2 mm diameter) until the medium (e.g. lubricating oil) leaks out. Screw on the protective cap again.

Example: M43C test connection

Connection block



Pressure sensor with test valve (M20, M25, M/VM32(C))

During normal operation the test valve is open. When there is media pressure, carefully open the swivel nut until the medium leaks out without any bubbles. Afterwards fasten the swivel nut again.

Example: Test connection on the M32C

Test valve

