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Тема: SO 2629-18 Schlumberger
Вложения: Hydualic antiburst valve.jpg; anti burst valve insert.jpg; anti burst valve body.jpg

Dear Evgeny,

I've spoken to the hydraulic people and they have said that the problem will be with the anti-burst valve fitted to the cylinder.

This is fitted to the bottom port of the hydraulic cylinder and is a safety feature.

Hose anti-burst valves are used to prevent the uncontrolled descent of a load should a hose or pipe burst.

When the flow of oil exceeds the value set on the valve the valve shuts preventing any further oil flow.

The anti-burst valve has a restrictor inside that must have become blocked.

Possibly dirt has got into the hydraulic system, a different, thicker, oil is being used or even the ambient temperature is lower so that the oil viscosity is thicker. (Temperature is unlikely considering that the second pre-heater is working OK)

Whatever the reason, we think that the problem is the anti-burst valve.

Firstly Schlumberger must securely prop and support the burner cover in the fully up position. The burner cover must be fully supported so that it cannot swing down. (crane or FLT) **This is very important.**

Schlumberger then need to disconnect the bottom hydraulic hose and remove the anti-burst valve. Once this is done the burner cover assembly is not restricted and can swing down at speed if not supported by an external means, which is why it must be fully supported.

The anti-burst valve needs to be dismantled and the insert removed.
The parts should be cleaned and reassembled.

If there is no sign of dirt or any other reason for the blockage, the restrictor could be opened up very slightly. The restrictor is set by the hydraulic supplier with a gap of 0.2mm and this could be opened up to 0.25mm.
Note, if the restrictor is opened up too much it will fail to operate as a safety valve.

The anti-burst valve is a standard hydraulic part and Schlumberger should be able to source one from a local hydraulics supplier should they wish to do so.

Regards

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