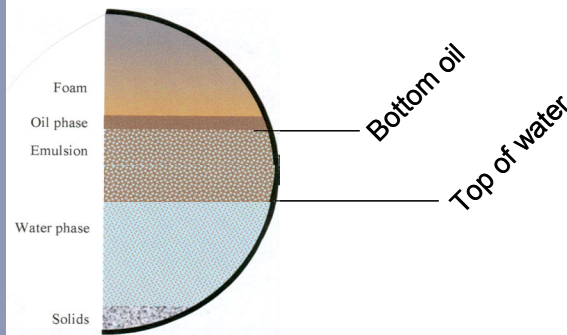


Mator News

2/2007

Mator AS – the separation specialist

Where is the separator interface?



Water level (as reported by CCR)	Water level (Mator BackScatter)	Difference CCR - BS
110%+ (max)	At top of weir plate	-
100% (980 mm)	750 mm	230 mm
90% (950 mm)	650 mm	300 mm
84% (930 mm)	450 mm	480 mm

A recent project scope included, among other things, to establish oil and water quality at various residence times in a separator. The testing revealed large deviations between assumed (CCR reported) and actual water level. By utilising Mator's technology it was possible to get more accurate test data, and for the operator to better understand the general performance of the separator. Correct level readings are essential for:

- Separator performance

When defining residence times for a separator, a common approach is to split the liquid volume between the oil and the water and then calculate the hold-up for each phase and see if it is according to requirements. In operation it is however necessary to add a margin for the dispersed layer between the two phases, as this may represent a significant volume.

- Process control

If the water level transmitter in a separator has a large misreading, this could lead to operationally and environmentally undesired situations with excess oil being drawn out the water outlet, a situation we unfortunately have seen examples of.

Contact us for further information on how we may assist you in this or other matters.

Recent Mator projects:

- ◆ Statoil Kårstø: KEP 2010 scrubber carry-over tracer study.
- ◆ Total Tchibouela (Congo): Verification of 3-phase separators performance.
- ◆ Kanfa Pilot: Heavy oil process design.
- ◆ Statoil Heidrun: Emulsion breaker testing.
- ◆ Statoil Gullfaks 2030: Future separation concept study.

Mator AS

Herøya Næringspark, N-3936 Porsgrunn, Norway

Tel: +47 35 57 49 00, Fax: +47 35 57 49 10

e-mail: admin.mator@mator.com

www.mator.com

