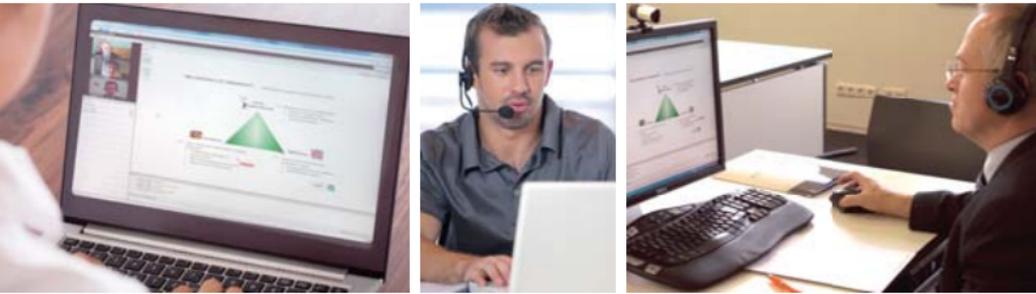




# OilDoc

## Online-Trainings



## Water and Air in Oil: The underestimated risk

Online-training with 3 modules

every module (duration 1 hr.)  
only EUR 95,- plus vat

### Summary:

Water is by far the most common form of liquid contamination of lubricating oils, hydraulic fluids and other special fluids. The same applies to the entry of air in the area of gaseous contamination. Applies to both phenomena that they in practice are often under- or over-estimated. Both lead to unnecessary maintenance actions and increased costs.

Applications, machinery and oil types respond differently to an air and water entry. A general discussion of the topic is therefore unhelpful. The training series treated systematically and application-specific causes and consequences of increased water or air entry and gives practical tips, to detect and correct these as early as possible. The integrated into each module, real case studies complete the training series and provide a high practical relevance.



**Dates and registration:**  
[www.oildoc.de/online-trainings](http://www.oildoc.de/online-trainings)



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## Easy to attend!

All you need is a broadband internet connection, a current Internet Browser with Flash Player, a headset / speakers for your laptop, PC or tablet and one hour of your time. Thus equipped, take part in our online training - no matter where you are!

The Adobe Connect App is available for Apple, Android and Blackberry tablets, for free.

The series is repeated at regular intervals. So you can always enter new or catch up on individual modules, if you get an appointment inconvenient.

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### Module 1:

#### *Water in Oil: Normal phenomenon or „public enemy no. 1“*

- ✓ Causes of humidity and water in oil
- ✓ Dissolved and free water
- ✓ Consequences of an increased water content
- ✓ Detection methods
- ✓ Limits - application and oiltyp related
- ✓ Case studies

### Module 2:

#### *Air in oil: No bubbles, no problem?*

- ✓ Reasons for air entry in oil
- ✓ Dissolved and free air
- ✓ Consequences of an increased air entry
- ✓ Air release
- ✓ Detection methods
- ✓ Interpretation
- ✓ Limits - application and oiltyp related
- ✓ Other gaseous contamination
- ✓ Case studies

### Module 3:

#### *Foaming: Why oil and beer should be different*

- ✓ Causes and magnitudes of influence on foaming characteristics
- ✓ (Surface) foaming and Oil-Air-dispersion
- ✓ Consequences of increased foam formation
- ✓ Detection methods
- ✓ Interpretation
- ✓ Limits - application and oiltyp related
- ✓ Other gaseous contamination
- ✓ Case studies