

Information Data Sheet

Detector Tube Oil-HP

Part No. (US): 488909

Part No. D5085850

1. Application

Detection of mineralic oil especially of compressor oil contents (vapor and mist) in compressed air.

2. Sampling Device

Monitoring set for compressed air, Uniphos Airtester HP, Airtester MP, observe included instruction for use.

3. Measuring Range

The detector tube has two marks conforming the following compressor oil contents:

Mark "a": approx. 0.5 mg/m³ for a 25 l sample
approx. 0.3 mg/m³ for a 60 l sample

Mark "b": approx. 1.0 mg/m³ for a 25 l sample
approx. 0.5 mg/m³ for a 60 l sample

4. Chemical Reaction and Color Change

Oxidation of compressor oil by a chromate/sulfuric acid reagent.

Color change: yellow → light green resp. light brownish green.



5. Ambient Conditions During Sampling

Detector tubes can be used between 10 °C and 40 °C (50 °F and 104 °F).

Water vapor contents of at least 0.5 g/m³ (1% rh at 40 °C [104 °F] resp. 5 % rh at 10 °C [50 °F]) will be absorbed by the protective layer. Higher concentrations of water vapor will discolor the indicating layer from yellow to red. Performance of detector tube is not affected by that discoloration.

6. Interferences and Cross Sensitivities

- a) No interference from:
 - hydrogen, methane, ethane, propane, carbon dioxide, carbon monoxide.
- b) Vapors of many organic substances, especially hydrocarbons, will be indicated. The sensitivity of indication is different.

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