

TEST REPORT

No. **13/003**Date: 26.08.2013



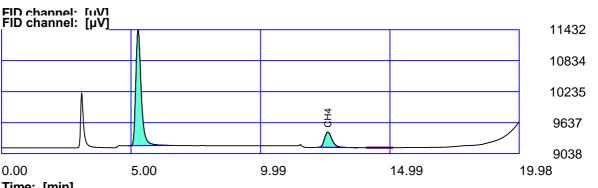
CHROMATOGRAPHIC ANALYSIS OF GASES DISSOLVED IN OIL

Transformer data: Instrument data: Test method:

Oil from machine, degassed

TOGA GC, full vacuum degassing, Energy Support HRN EN 60567, IEC 60599, IEC 61181

Note:



Time: [min]



Time: [min]

Component		Ref. value µl/l_(ppm)	Meas. value µl/ <u>l (pp</u> m)	Nom. value µl/l_(ppm)	Exceed. no	om. valį
Hydrogen	H ₂	-	-	15.0	-	-
Methane	CH ₄	-	25.5	5.0	-	410
Ethine	C ₂ H ₂	-	-	1.0	-	-
Ethene	C ₂ H ₄	-	-	2.0	-	-
Ethane	C ₂ H ₆	-	-	5.0	-	-
Carbon monoxide	CO	-	-	80.0	-	-
Carbon dioxide	CO ₂	-	80.0	200	-	-
Nitrogen	N ₂	-	4618	-	-	-
Oxygen	O ₂	-	-0.007	-	-	-
Total gas	TG	-	4724	-	-	-

INTERPRETATION OF TEST RESULTS: All gas concentrations are low and according with typical manufacturer's gas valuec acc. QA-RU-15-00-06

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