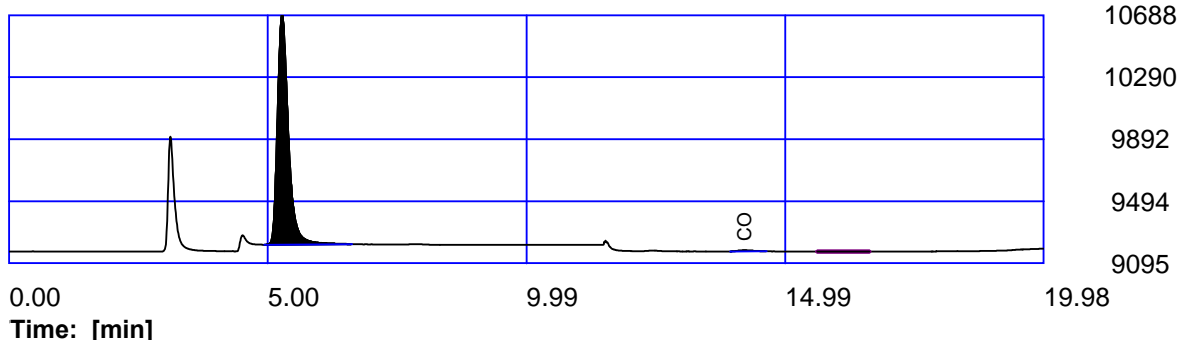


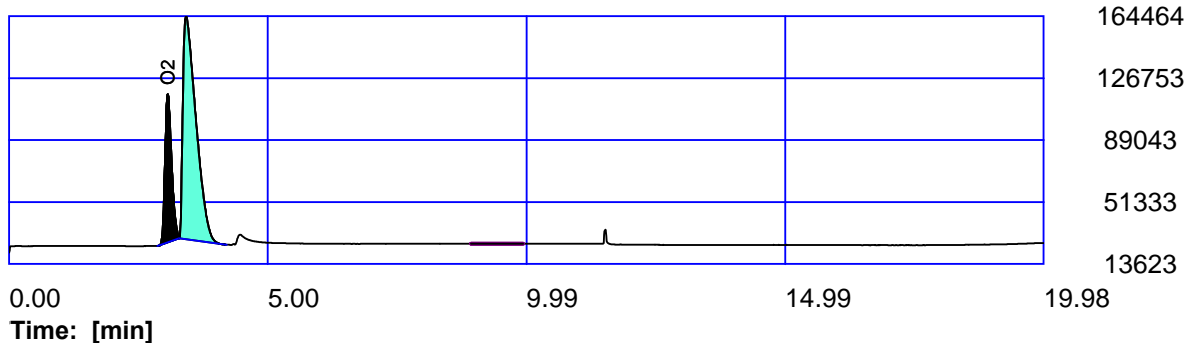
CHROMATOGRAPHIC ANALYSIS OF GASES DISSOLVED IN OIL

Transformer data: 037
Instrument data: TOGA GC, full vacuum degassing, Energy Support
Test method: HRN EN 60567, IEC 60599, IEC 61181
Note: before all tests

FID channel: [μV]



TCD channel: [μV]



Component		Ref. value μl/l (ppm)	Meas. value μl/l (ppm)	Nom. value μl/l (ppm)	Exceed. nom. val. %
Hydrogen	H ₂	-	-	15.0	-
Methane	CH ₄	-	-	5.0	-
Ethine	C ₂ H ₂	-	-	1.0	-
Ethene	C ₂ H ₄	-	-	2.0	-
Ethane	C ₂ H ₆	-	-	5.0	-
Carbon monoxide	CO	-	0.43	80.0	-
Carbon dioxide	CO ₂	-	33.7	200	-
Nitrogen	N ₂	-	6756	-	-
Oxygen	O ₂	-	1580	-	-
Total gas	TG	-	8370	-	-

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

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