

LAB REPORT

Unit id
GAS ENGINE
Component
Coolant

Lab number: 1704335

Machine type
TBG 616 V16K

Manufacturer
MWM

Coolant
Addinol Antifreeze Extra 4060

Beispielbericht
Analyseumfang: Gasmotoren-Set

The sample is clear and shows only slight contamination. The typical coolant antifreeze (glycol) additives and glycol components are detectable. You should observe any further changes during the next analysis. I recommend that you send us the next sample during your next service or during the usual inspection to monitor the trend behavior.

Dipl.-Ing. Andy Böhme (CLS)



NORMAL

ANALYSIS RESULTS		Current sample				
Lab number		1704335				
SAMPLE RATING						
Date of examination		21.07.2025				
Date of sample taken		10.07.2025				
Date of last coolant change		-				
Refill volume		-				
Coolant usage time		-				
Total operating hrs		73590				
Coolant changed		no				
CONDITION						
Color	-	orangerot				
Refractive index 20°C	-	1.3727				
Glycol concentration	% [Vol/Vol]	38.1				
Density 20 °C	kg/m ³	1051				
PH value 25°C	-	8.0				
Conductivity 25°C	µS/cm	2045				
Freezing point	°C	-21.4				
WATER QUALITY						
Water hardness	°dH	5.0				
Alkaline earths	mmol/l	0.89				
Calcium	Ca mg/l	33.7				
Magnesium	Mg mg/l	1.1				
Sulphate	mg/l	24.9				
Chloride	mg/l	17.5				



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ANALYSIS RESULTS (...)			Current sample				
Lab number			1704335				
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Date of examination			21.07.2025				
Date of sample taken			10.07.2025				
ADDITIVES							
Sodium	Na	mg/l	2452.8				
Phosphorus	P	mg/l	< 1.0				
Boron	B	mg/l	< 10.0				
Potassium	K	mg/l	< 10.0				
Silicon	Si	mg/l	7.6				
Molybdenum	Mo	mg/l	< 1.0				
Nitrate		mg/l	< 5.0				
Nitrite		mg/l	< 5.0				
Phosphate		mg/l	< 5.0				
Adipic acid		mg/l	< 5.0				
Acetate		mg/l	16.1				
WEAR							
Iron	Fe	mg/l	< 0.1				
Chrome	Cr	mg/l	< 0.1				
Aluminum	Al	mg/l	0.3				
Nickel	Ni	mg/l	< 0.1				
Copper	Cu	mg/l	< 0.1				
Lead	Pb	mg/l	< 0.1				
Zinc	Zn	mg/l	< 0.1				
Tin	Sn	mg/l	< 1.0				
DEGRADATION PRODUCT							
Glycolate		mg/l	47.1				
Formiate		mg/l	18.3				
Oxalate		mg/l	< 5.0				
CONTAMINATION							
Fluoride		mg/l	< 5.0				
Bromide		mg/l	< 10.0				
Manganese	Mn	mg/l	< 1.0				
Titanium	Ti	mg/l	< 0.1				
Vanadium	V	mg/l	< 0.1				
Silver	Ag	mg/l	< 0.1				
Lithium	Li	mg/l	< 1.0				



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SAMPLE IMAGES (LABORATORY NUMBER: 1704335)



BOTTLE AND CAP



Any questions?

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LAB.REPORT



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