

Unit ID **Gas engine**  
Component **Coolant**  
Lab number **1704335**

 +49 8034-9047-210

OELCHECK GmbH · Kerschelweg 28 · 83098 Brannenburg

Machine type: **TBG 616 V16K**  
Manufacturer: **MWM**  
Coolant: **Addinol Antifreeze Extra 4060**

Example report  
Analysis scope: Gas engine set

Diagnosis for the current laboratory values


The sample is transparent and shows a slightly increased amount of solid contaminants. The typical anti-freeze (glycol) additives and the glycol concentration are visible. Please observe further changes with the next sample. I recommend that you send the next sample at the next service interval or at your regular inspection for trend analysis.

Dipl.-Ing. Andy Böhme (CLS)

Sample Rating



normal

ANALYSIS RESULTS			Current sample		Previous samples	
LAB NUMBER			1704335			
SAMPLE RATING						
Date tested			20.07.2023			
Date of sample taken			10.07.2023			
Date of last coolant change			-			
Top-up since change			-			
Operating time since change			-			
Total operating time			73590			
Coolant changed			no			
CONDITION						
Color			orangerot			
Refractive index 20°C			1.3727			
Glycol concentration % [Vol/Vol]			38.1			
Density 20°C kg/m³			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			
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			
Acetat 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			

Bottle and cap



LAB REPORT




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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		

