

Unit ID **Gas engine**  
 Component **Coolant**  
 Current sample number **1704335**



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	
<b>LAB NUMBER</b>		<b>1704335</b>		
<b>SAMPLE RATING</b>				
Date tested		<b>20.07.2023</b>		
Date of sample taken		<b>10.07.2023</b>		
Date of last coolant change		-		
Top-up since change		-		
Operating time since change		-		
Total operating time		<b>73590</b>		
Coolant changed		<b>no</b>		
<b>CONDITION</b>				
Color	-	<b>orangerot</b>		
Refractive index 20°C	-	<b>1.3727</b>		
Glycol concentration	% [Vol/Vol]	<b>38.1</b>		
Density 20°C	kg/m³	<b>1051</b>		
pH value 25°C	-	<b>8.0</b>		
Conductivity 25°C	µS/cm	<b>2045</b>		
Freezing point	°C	<b>-21.4</b>		
<b>WATER QUALITY</b>				
Water hardness	°dH	<b>5.0</b>		
Alkaline earths	mmol/l	<b>0.89</b>		
Calcium	Ca mg/l	<b>33.7</b>		
Magnesium	Mg mg/l	<b>1.1</b>		
Sulphate	mg/l	<b>24.9</b>		
Chloride	mg/l	<b>17.5</b>		
<b>ADDITIVES</b>				
Sodium	Na mg/l	<b>2452.8</b>		
Phosphorus	P mg/l	<b>&lt; 1.0</b>		
Boron	B mg/l	<b>&lt; 10.0</b>		
Potassium	K mg/l	<b>&lt; 10.0</b>		
Silicon	Si mg/l	<b>7.6</b>		
Molybdenum	Mo mg/l	<b>&lt; 1.0</b>		
Nitrate	mg/l	<b>&lt; 5.0</b>		
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Phosphate	mg/l	<b>&lt; 5.0</b>		
Adipic acid	mg/l	<b>&lt; 5.0</b>		
Acetat	mg/l	<b>16.1</b>		
<b>WEAR</b>				
Iron	Fe mg/l	<b>&lt; 0.1</b>		
Chrome	Cr mg/l	<b>&lt; 0.1</b>		
Aluminium	Al mg/l	<b>0.3</b>		
Nickel	Ni mg/l	<b>&lt; 0.1</b>		
Copper	Cu mg/l	<b>&lt; 0.1</b>		
Lead	Pb mg/l	<b>&lt; 0.1</b>		
Zinc	Zn mg/l	<b>&lt; 0.1</b>		
Tin	Sn mg/l	<b>&lt; 1.0</b>		

Bottle and cap



# LAB REPORT

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<b>LAB NUMBER</b>		<b>1704335</b>		
<b>SAMPLE RATING</b>		✔		
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Date of sample taken		<b>10.07.2023</b>		
Date of last coolant change		-		
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Operating time since change		-		
Total operating time		<b>73590</b>		
Coolant changed		<b>no</b>		
<b>DEGRADATION PRODUCT</b>				
Glycolate	mg/l	<b>47.1</b>		
Formiate	mg/l	<b>18.3</b>		
Oxalate	mg/l	<b>&lt; 5.0</b>		
<b>CONTAMINATION</b>				
Fluoride	mg/l	<b>&lt; 5.0</b>		
Bromide	mg/l	<b>&lt; 10.0</b>		
Manganese	Mn mg/l	<b>&lt; 1.0</b>		
Titanium	Ti mg/l	<b>&lt; 0.1</b>		
Vanadium	V mg/l	<b>&lt; 0.1</b>		
Silver	Ag mg/l	<b>&lt; 0.1</b>		
Lithium	Li mg/l	<b>&lt; 1.0</b>		

