

LAB REPORT

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



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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



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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		
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		

