

LAB REPORT

Unit id
WIND ENERGY SYSTEM
Component
Inverter cooling unit

Lab number: 1704334

Machine type
MM92

Coolant
Antifrogen N44

Sample Report
Scope of Analysis: Wind Power Kit

The sample is clear and free from solid contaminants. The typical coolant antifreeze (glycol) additives and glycol components are detectable. You should monitor further changes based on the next analysis. I advise you: Send us the next sample at your next maintenance or during the regular inspection to observe the trend behavior.

Dipl.-Ing. Andy Böhme (CLS)



NORMAL

ANALYSIS RESULTS		Current sample				
Lab number		1704334				
SAMPLE RATING						
Date of examination		18.08.2025				
Date of sample taken		11.08.2025				
Date of last coolant change		-				
Refill volume		-				
Coolant usage time		-				
Total operating hrs		27865 h				
Coolant changed		-				
CONDITION						
Color	-	yellow				
Refractive index 20°C	-	1.3813				
Glycol concentration	% [Vol/Vol]	46.3				
Density 20 °C	kg/m ³	1062				
PH value 25°C	-	8.0				
Conductivity 25°C	µS/cm	2136				
Freezing point	°C	-30.3				
WATER QUALITY						
Water hardness	°dH	2.0				
Alkaline earths	mmol/l	0.36				
Calcium	Ca mg/l	10.8				
Magnesium	Mg mg/l	2.1				
Sulphate	mg/l	18.8				
Chloride	mg/l	11.3				



ANALYSIS RESULTS (...)			Current sample				
Lab number			1704334				
SAMPLE RATING							
Date of examination			18.08.2025				
Date of sample taken			11.08.2025				
ADDITIVES							
Sodium	Na	mg/l	2891.5				
Phosphorus	P	mg/l	< 1.0				
Boron	B	mg/l	< 10.0				
Potassium	K	mg/l	< 10.0				
Silicon	Si	mg/l	1.8				
Molybdenum	Mo	mg/l	102.5				
Effective Silicate		mg/l	3.9				
Nitrate		mg/l	744.7				
Nitrite		mg/l	< 5.0				
Phosphate		mg/l	< 5.0				
Adipic acid		mg/l	< 5.0				
Acetate		mg/l	< 5.0				
WEAR							
Iron	Fe	mg/l	< 0.1				
Chrome	Cr	mg/l	< 0.1				
Aluminum	Al	mg/l	< 0.2				
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	8.1				
Formiate		mg/l	5.7				
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: 1704334)



Any questions?

Phone: +49 8034 9047-210
ta@oelcheck.de

LAB.REPORT



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