

LAB REPORT

Unit id
HFC HYDRAULICS FLUID
 Component
Hydraulics



Lab number: 1704419

Machine type
EK 392270

Oil brand name
Fuchs Hydrotherm 46M

Oil quantity in system
3200 l

Sample Report
 Scope of Analysis: Biokit 3 HFC

The wear metals have hardly changed since the last analysis. The pH value is within the normal range. All other determined data are within the permissible or expected values. If an oil change has not yet been performed, continued use of the oil would be possible under similar operating conditions while maintaining usual maintenance work. I advise you: Send us the next sample at your next maintenance or on the occasion of the regular inspection to observe the trend behavior.



NORMAL

Dipl.-Ing. Andy Böhme (CLS)

ANALYSIS RESULTS			Current sample	Previous samples →			
Lab number			1704419	1704420	1704421	1704422	
SAMPLE RATING			✓	✓	✓	✓	
Date of examination			26.09.2025	14.04.2025	30.09.2024	11.03.2024	
Date of sample taken			19.09.2025	31.03.2025	23.09.2024	03.03.2024	
Date of last oil change			-	-	-	-	
Top-up since change			-	-	-	-	
Operating time since change			-	-	-	-	
Total operating time			-	-	-	-	
Oil changed			no	no	no	no	
WEAR							
Iron	Fe	mg/kg	1	1	1	1	
Chrome	Cr	mg/kg	0	0	0	0	
Tin	Sn	mg/kg	14	13	15	14	
Aluminum	Al	mg/kg	1	1	1	2	
Nickel	Ni	mg/kg	1	1	1	1	
Copper	Cu	mg/kg	1	0	0	0	
Lead	Pb	mg/kg	0	1	0	0	
Molybdenum	Mo	mg/kg	0	0	0	0	
Manganese	Mn	mg/kg	1	1	0	0	
PQ index	-	-	< 25	< 25	< 25	< 25	
CONTAMINATION							
Silicon	Si	mg/kg	4	3	4	4	
Potassium	K	mg/kg	1	1	2	3	
Sodium	Na	mg/kg	75	85	83	109	
Lithium	Li	mg/kg	-	1	-	-	
Tungsten	W	mg/kg	6	6	-	-	
Cobalt	Co	mg/kg	2	1	1	1	
Water K. F.		% (m/m)	46.3	43.3	45.5	42.6	
OIL CONDITION							
Viscosity at 40 °C		mm ² /s	49.53	48.29	48.44	48.21	



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ADDITIVES							
Calcium	Ca	mg/kg	0	0	0	0	
Magnesium	Mg	mg/kg	0	0	0	0	
Boron	B	mg/kg	0	0	0	0	
Zinc	Zn	mg/kg	2	3	1	1	
Phosphorus	P	mg/kg	31	45	58	51	
Barium	Ba	mg/kg	0	0	0	0	
ADDITIONAL TESTS							
Reserve alkalinity	ml 0.1 N HCl		11.1	11.0	11.1	11.6	
PH value	-		9.7	9.7	9.7	10.0	

SAMPLE PICTURES



Any questions?

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

LAB.REPORT



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