

Unit ID **HFC hydraulics fluid**  
 Component **Hydraulic**  
 Current sample number **1704419**



OELCHECK GmbH · Kerschelweg 28 · 83098 Brannenburg

Machine type: **EK 392270**  
 Sample from: **Hydraulics**  
 Oil brand name: **Fuchs Hydrotherm 46M**  
 Oil quantity in system: **3200 l**

Example report  
 Analysis scope: Analysis-Kit 3 HFC

### Diagnosis for the current laboratory values

There is no significant change of wear metals since the previous sample. The pH value is within the normal range. All the other data detected are within the permissible or expected value range. If no oil change has happened yet, it is possible to continue using the oil under similar operating conditions and under continuation of the usual maintenance schedule. 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			1704419	1704420	1704421	1704422
SAMPLE RATING			✓	✓	✓	✓
Date tested			26.09.2023	14.04.2023	30.09.2022	11.03.2022
Date of sample taken			19.09.2023	31.03.2023	23.09.2022	03.03.2022
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
Chrom	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	mm²/s	-	49.53	48.29	48.44	48.21
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

Bottle and cap

