

Unit ID **KSS**  
 Component **Metalworking fluid**  
 Current sample number **1705833**



OELCHECK GmbH · Kerschelweg 28 · 83098 Brannenburg

Machine type: **Machine tool**  
 Oil brand name: **Kühlschmierstoff nicht wassermischbar 2200 I**  
 Oil quantity in system: **2200 I**

Example report  
 Analysis scope: Analysis-Kit 3

### Diagnosis for the current laboratory values

There is no significant change in comparison to the previous sample. The content of metals in working fluids used in metal cutting or non-cutting shaping processes is mainly the result of the working process. However, it is not relevant in order to evaluate the condition of the fluid. A rapid increase in the metal content can be due to changes in the processing parameters or an increased wear of the tool. 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



unrated

ANALYSIS RESULTS			Current sample	Previous samples		
LAB NUMBER			1705833	1705834	1705835	1705836
SAMPLE RATING			●	●	●	●
Date tested			08.03.2024	04.09.2023	14.10.2022	03.02.2022
Date of sample taken			29.02.2024	20.08.2023	03.10.2022	27.01.2022
Date of last oil change			-	-	-	-
Top-up since change			-	-	-	-
Operating time since change			-	-	-	-
Total operating time			-	-	-	-
Oil changed			-	-	-	-
WEAR						
Iron	Fe	mg/kg	21	20	21	16
Chrom	Cr	mg/kg	0	1	1	0
Tin	Sn	mg/kg	0	0	0	0
Aluminum	Al	mg/kg	0	0	0	0
Nickel	Ni	mg/kg	5	5	5	4
Copper	Cu	mg/kg	1	1	1	0
Lead	Pb	mg/kg	0	0	0	0
Molybdenum	Mo	mg/kg	0	0	3	0
Manganese	Mn	mg/kg	2	2	2	1
PQ index	-		< 25	< 25	< 25	< 25
CONTAMINATION						
Silicon	Si	mg/kg	0	0	0	0
Potassium	K	mg/kg	0	0	0	1
Sodium	Na	mg/kg	4	4	4	3
Lithium	Li	mg/kg	1	1	-	1
Silver	Ag	mg/kg	0	0	0	0
Titanium	Ti	mg/kg	2	2	3	2
Vanadium	V	mg/kg	0	0	0	0
Water K. F.	ppm		284	411	380	158
OIL CONDITION						
Viscosity at 40°C	mm²/s		12.79	12.82	12.98	13.03
Viscosity at 100°C	mm²/s		3.67	3.68	3.69	3.71
Viscosity index	-		190	192	188	189
Oxidation	A/cm		6	7	7	4
Color	Color index		2.5	2.0	2.0	2.0
ADDITIVES						
Calcium	Ca	mg/kg	34	33	22	17
Magnesium	Mg	mg/kg	0	0	0	0
Boron	B	mg/kg	0	1	1	0
Zinc	Zn	mg/kg	53	52	43	37
Phosphorus	P	mg/kg	630	664	602	596
Barium	Ba	mg/kg	0	0	0	0
Sulphur	S	mg/kg	6761	6707	7034	6382
ADDITIONAL TESTS						
AN / NN	mgKOH/g		2.22	2.42	2.45	2.29

### Bottle and cap



### Infrared Spectrum

