

Analysis report

Component **HYDRAULIK 7 FOR SPEED COATER 1+2 HY1/6**

Sampling point **GK MP42 01 0059 07 - Hydraulic unit**

Sample name (ID) TMD: PL4 PM 1665 (0000100110)

Meas. campaign TMD: PL4 PM Revision

Lubricant (Amount) CASTROL-HYDRAULIC-OIL HYPIN AWS 46 (1500 L)



Result

Comment Few wear metals were still detectable in the sample. The purity class of the oil is good. The water content is within the normal range. The oil is still suitable for operation.



Status Intensify observation

Error Oxidation (ASTM D2412) too high, Water (ASTM D2412) too high, VI too low

Warning Iron is slightly elevated; Nickel is slightly elevated; Barium deviates too much from fresh oil

Validation

Status approved

Person, Date Joe White, 05.02.2025 11:20

Comment The implementation including the sampling was in order; all measurements were very good.



Sample ident.	0000123456	0000001234	0000031062	0000031063	0000031065	0000031066
Overall assessment	Fresh oil	✓	✓	✗	✓	!
Date sampling	26.11.2023 10:00	01.02.2025 10:00	26.11.2024 10:00	26.11.2023 10:00	26.11.2022 10:00	26.11.2021 10:00
Date received	-	01.02.2025 16:00	26.12.2024 00:00	26.12.2023 00:00	26.12.2022 00:00	27.12.2021 00:00
Oil top-up [L]	-	100	-	-	10	-
Machine life [h]	-	2340	2260	2015	1990	1850
Oil life [h]	-	343	262	37	1990	1850
Result status		Intensify observation		Filtration	Oil change	
Wear						
RDE Iron mg/kg	< 1.00	22	5	50	8	20
RDE Nickel mg/kg	< 1.00	30	< 1.00	< 1.00	< 1.00	< 1.00
RDE Tin mg/kg	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
RDE Copper mg/kg	< 1.00	< 1.00	< 1.00	30	< 1.00	10
Contamination						
RDE Potassium mg/kg	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
RDE Lithium mg/kg	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
RDE Natrium mg/kg	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
RDE Silicon mg/kg	< 1.00	< 1.00	< 1.00	30	< 1.00	10
IR Water IR A/cm	5.7	20	5	8	7	15
IR Soot cal. IR wt%	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
PC ISO 4 um (c) -	17	22	20	20	20	20
PC ISO 6 um (c) -	15	20	18	18	18	18
PC ISO 14 um (c) -	11	18	14	14	16	14
PC Count 4 um c/mL	882	448	7693	5387	8316	9656
PC Count 6 um c/mL	167	181	1830	1382	2188	1743
PC Count 14 um c/mL	16	17	105	97	357	119
Composition						
RDE Barium mg/kg	1000	890	1000	1000	1000	1000
RDE Cadmium mg/kg	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
RDE Magnesia mg/kg	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
RDE Molybdenum mg/kg	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
IR Oxidation A/cm	3.5	25	5	18	7	15
V Kin. Vis. @ 40C mm²/s	46.00	44.91	44.5	44.6	45	45.1
V Viscosity Index -	130	110	128	127	127	126