Analysis Report

A09-A61

System:	HYDRAULIC SYSTEM	Customer:	NV REM B HYDRAULICS
Sump Capacity:	160 L		0477660165
Lubricant:	WOLF ARIO ISO 46	Address:	Rouwbergskens 5
Labocodenbr:	104316-LC.4		B- 2340 BEERSE
Samplenumber:	12.10.23 J003		
Labelnumber:	501000800164		
Date sample drawn:	10.10.2023	Your customer:	A09-A61
Sampling:	by client	Your ref.:	R23P2188

Diagnostic

☑ Oil ☑ Pollution ☑ Wear ☑

The oil is in good condition and the wear metals are considered normal. The particle pollution level is normal, indicating an appropriate filtration.

Normal

Results:	Method*	Unit	Current sample			12.10.23 J003
Analysis date			**12/10/2023**	8/11/2022	14/04/2022	
Date of receipt			**12/10/2023**	8/11/2022	14/04/2022	
Sample date			**10/10/2023**	5/10/2022	11/04/2022	
H/Km Oil			**?**	?	?	
H/Km total			**?**	?	?	
Top up			**?**	?	?	
Oil Condition:						
Viscosity at 40°C	ASTM D7279	cSt	**47.5**	46.0	45.8	
Viscosity at 100°C	ASTM D7279	cSt	**7.4**	7.4	7.3	
Viscosity-index	ASTM D2270		**119**	125	122	
Fuel dilution	ASTM D7593	%				
AN	ASTM D8045	mg KOH/g	**0.49**	0.33	0.42	
BN	ASTM D2896B	mg KOH/g				
Oxidation	ASTM E2412	Abs/0.1mm	**3.7**	1.9	1.7	
Nitration	ASTM E2412	Abs/0.1mm	**1.5**	1.6	1.4	
PMCC	ASTM D93	°C				
COC	ASTM D92B	°C				
Color	ASTM D1500		**1.0**	1.0	0.5	
Additives:						
Ba: Barium	ASTM D5185	ppm	**1**	< 1	< 1	
Ca: Calcium	ASTM D5185	ppm	**33**	37	39	
Mg: Magnesium	ASTM D5185	ppm	**1**	1	1	
P: Phosphorus	ASTM D5185	ppm	**297**	317	309	
S: Sulfur	ASTM D5185	%	**0.07**	0.07	0.07	
Zn: Zink	ASTM D5185	ppm	**393**	409	409	
Pollution:						
Si: Silicium	ASTM D5185	ppm	**1**	< 1	< 1	
B: Boron	ASTM D5185	ppm	**< 1**	< 1	< 1	
Na: Sodium	ASTM D5185	ppm	**< 1**	< 1	< 1	
Water	WI-0002	%				
Water (KF)	ASTM D6304C	ppm	**39**	81	73	
Soot content	ASTM E2412	%				
Antifreeze	ASTM D2982A					
PC ISO grade	ASTM D7647		**17/15/11**	15/13/10	19/17/12	
PC Cleanliness class	ASTM D7647		**7 A**	8 F	9 A	
Insolubles	ASTM D4898	mg/l				
Wear metals:						
Al: Aluminium	ASTM D5185	ppm	**< 1**	< 1	< 1	
Cr: Chromium	ASTM D5185	ppm	**< 1**	< 1	< 1	
Cu: Copper	ASTM D5185	ppm	**5**	4	2	
Fe: Iron	ASTM D5185	ppm	**1**	1	1	
Mo: Molybdenum	ASTM D5185	ppm	**< 1**	< 1	< 1	
Pb: Lead	ASTM D5185	ppm	**< 1**	< 1	< 1	
Sn: Tin	ASTM D5185	ppm	**< 1**	< 1	< 1	
PQ index	WI-0021					

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History lubricant:			12.10.23 J003
1	12.10.23 J003	WOLF ARIO ISO 46	
2	08.11.22 G009	WOLF ARIO ISO 46	
3	14.04.22 L013	PETRONAS H ISO 46	
4			
5			
6			

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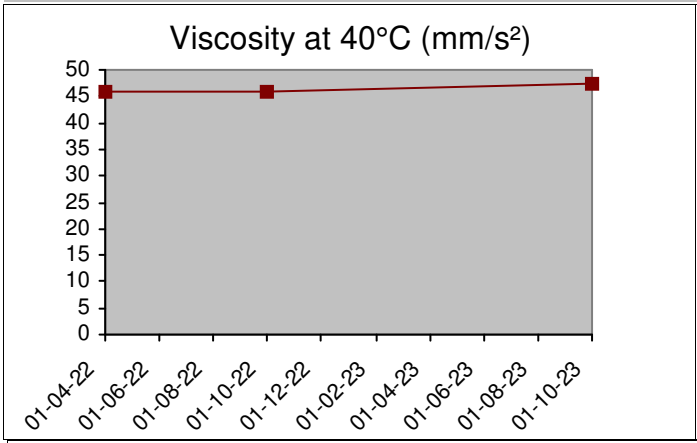
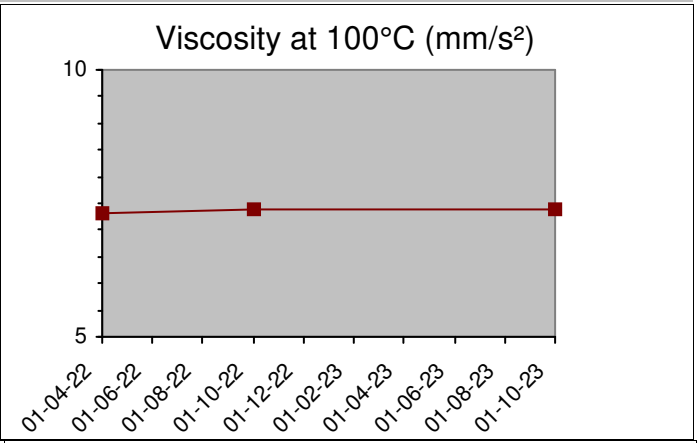
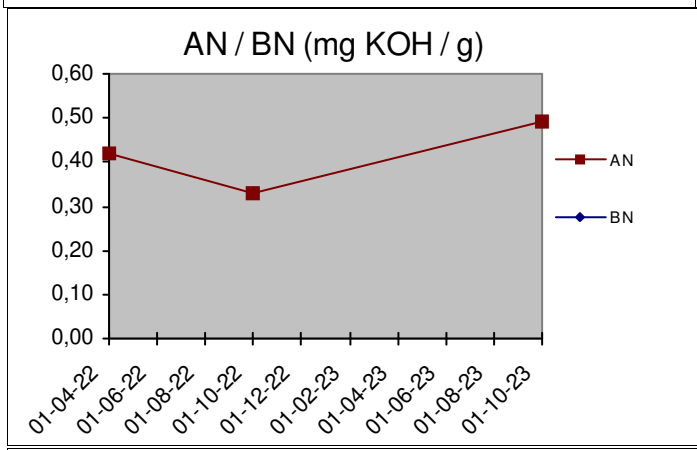
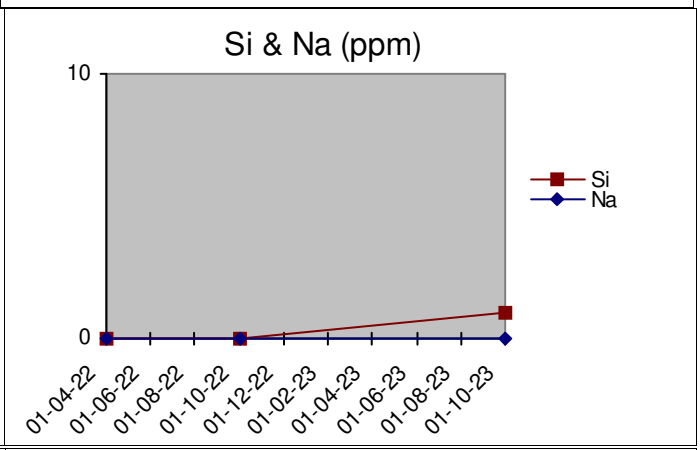
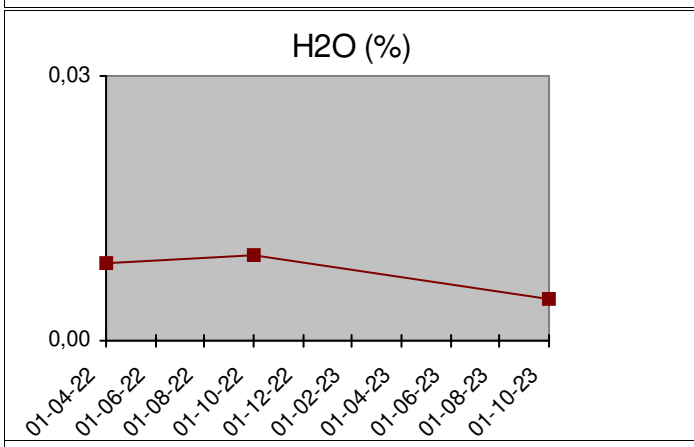
History 12.10.23 J003



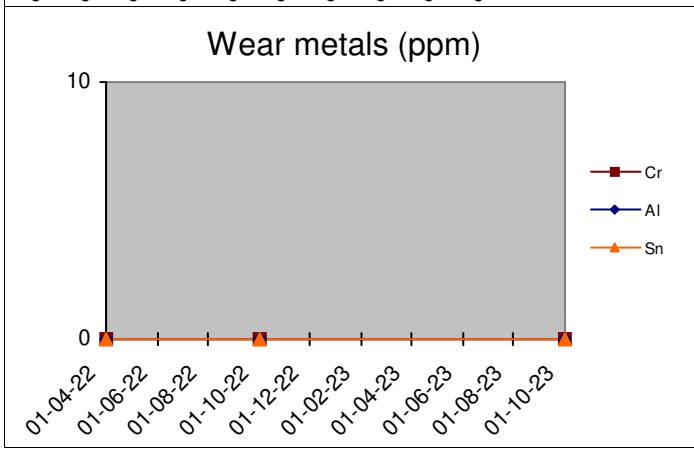


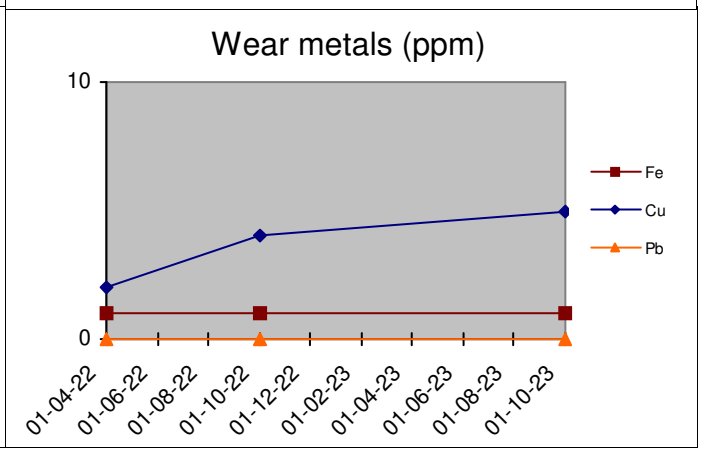






PQ index





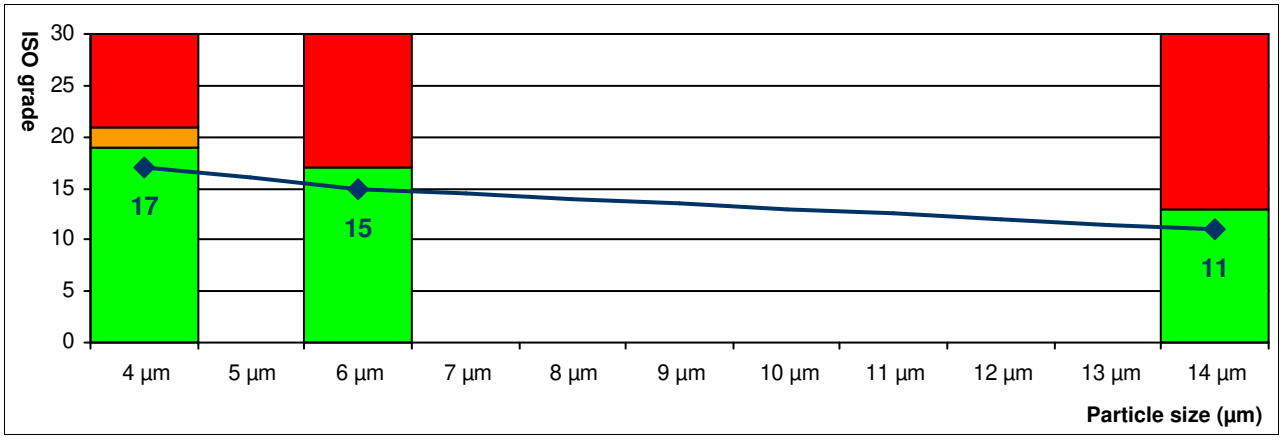
Particle count

A09-A61

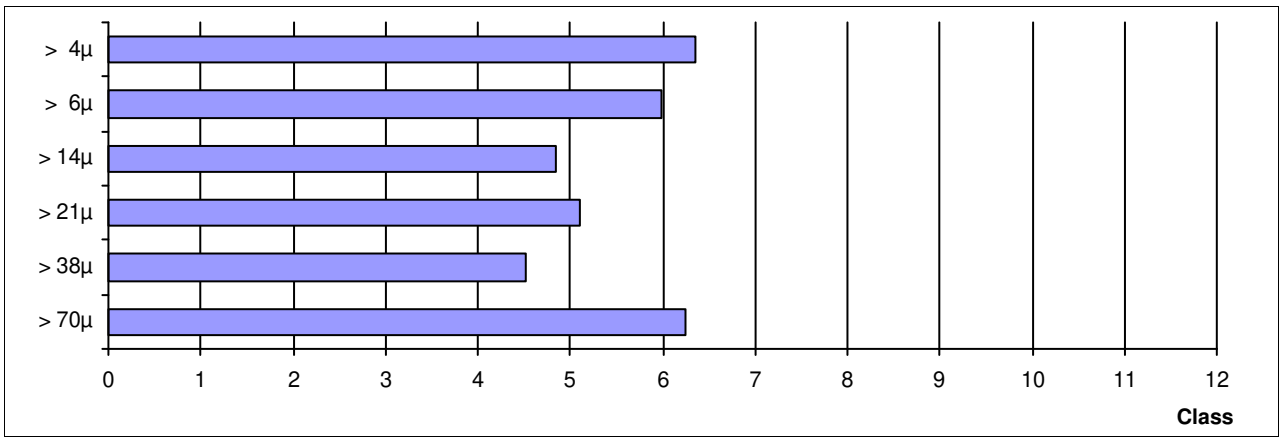
12.10.23 J003

ISO score	**17 / 15 / 11**
AS4059 class	**7 A**

ISO score (4406:2021)	Particles / 100ml		Score
	> 4µ	68270	17
	> 6µ	19450	15
	> 14µ	1600	11
	> 21µ	340	
	> 38µ	40	
	> 70µ	20	



AS4059 class		Particles / 100ml	Class
A:	> 4µ	68270	A7
B:	> 6µ	19450	B6
C:	> 14µ	1600	C5
D:	> 21µ	340	D6
E:	> 38µ	40	E5
F:	> 70µ	20	F7



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