

System:	HYDRAULIC SYSTEM	Customer:	NV REM B HYDRAULICS
Sump Capacity:	300 L		0477660165
Lubricant:	PETRONAS PLI HV ISO 46	Address:	Rouwbergskens 5
Labocodenbr:	104316-OV.4		B- 2340 BEERSE
Samplenummer:	04.01.24 L003	Your customer:	PETRONAS PLI 46
Labelnummer:	201001106296	Your ref.:	R23P3375
Date sample drawn:	22.12.2023		
Sampling:	by client		

### 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: 04.01.24 L003

Method*	Unit	Current sample
Analysis date		4/01/2024
Date of receipt		4/01/2024
Sample date		22/12/2023
H/Km Oil		?
H/Km total		?
Top up		?

### Oil Condition:

Method*	Unit	Current sample
Viscosity at 40°C	ASTM D7279	cSt 45.9
Viscosity at 100°C	ASTM D7279	cSt 7.2
Viscosity-index	ASTM D2270	118
Fuel dilution	ASTM D7593	%
AN	ASTM D8045	mg KOH/g 0.49
BN	ASTM D2896B	mg KOH/g
Oxidation	ASTM E2412	Abs/0.1mm 2.5
Nitration	ASTM E2412	Abs/0.1mm 1.4
PMCC	ASTM D93	°C
COC	ASTM D92B	°C
Color	ASTM D1500	0.0

### Additives:

Method*	Unit	Current sample
Ba: Barium	ASTM D5185	ppm 1
Ca: Calcium	ASTM D5185	ppm 41
Mg: Magnesium	ASTM D5185	ppm < 1
P: Phosphorus	ASTM D5185	ppm 320
S: Sulfur	ASTM D5185	% 0.09
Zn: Zink	ASTM D5185	ppm 390

### Pollution:

Method*	Unit	Current sample
Si: Silicium	ASTM D5185	ppm < 1
B: Boron	ASTM D5185	ppm < 1
Na: Sodium	ASTM D5185	ppm < 1
Water	WI-0002	%
Water (KF)	ASTM D6304C	ppm 55
Soot content	ASTM E2412	%
Antifreeze	ASTM D2982A	
PC ISO grade	ASTM D7647	19/15/9
PC Cleanliness class	ASTM D7647	9 A
Insolubles	ASTM D4898	mg/l

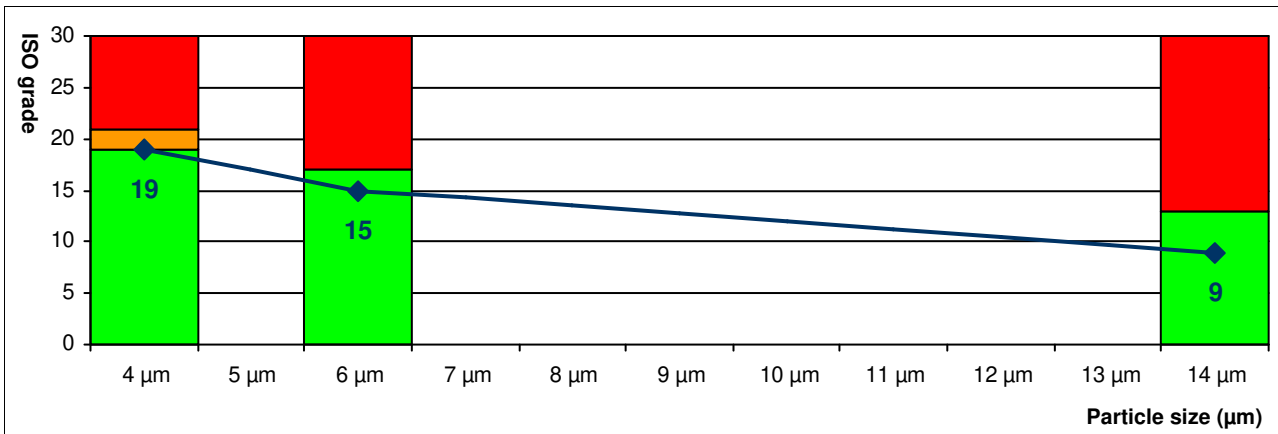
### Wear metals:

Method*	Unit	Current sample
Al: Aluminium	ASTM D5185	ppm < 1
Cr: Chromium	ASTM D5185	ppm < 1
Cu: Copper	ASTM D5185	ppm < 1
Fe: Iron	ASTM D5185	ppm < 1
Mo: Molybdenum	ASTM D5185	ppm < 1
Pb: Lead	ASTM D5185	ppm < 1
Sn: Tin	ASTM D5185	ppm < 1
PQ index	WI-0021	

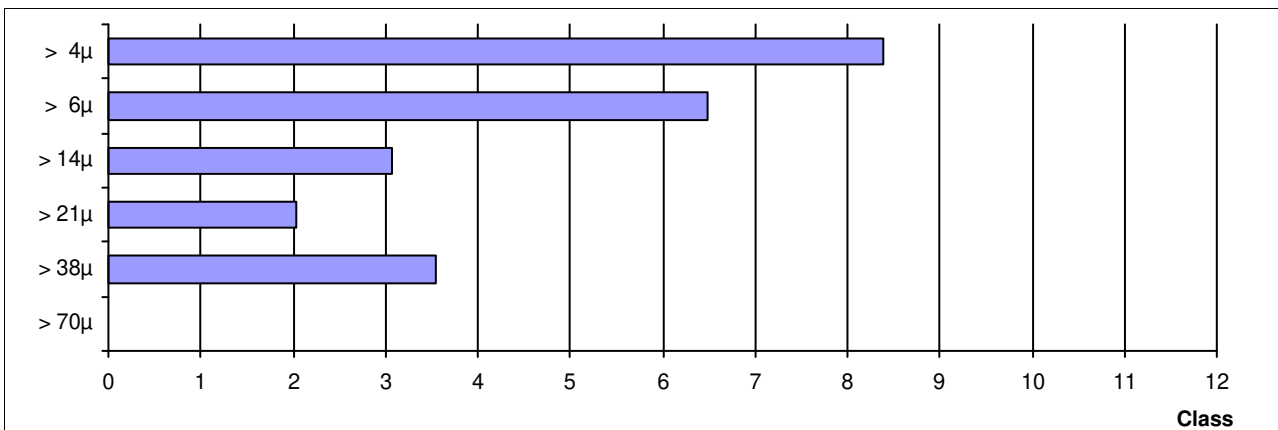
These conclusions are based on the supplied samples and information where the representativeness and validity cannot be guaranteed. Opinions and interpretation are outside the scope of accreditation. The measurement uncertainty is available on request. Samples are destroyed 2 months after receipt. The report may only be reproduced complete. Distribution on the responsibility of the client. \*Methods are modified according to specified method. (A)Accreditation. (U)Outsourced.

<b>ISO score</b>	<b>19 / 15 / 9</b>
<b>AS4059 class</b>	<b>9 A</b>

ISO score (4406:2021)	Particles / 100ml	Score
> 4 $\mu$	276210	19
> 6 $\mu$	28960	15
> 14 $\mu$	460	9
> 21 $\mu$	40	
> 38 $\mu$	20	
> 70 $\mu$	0	



AS4059 class	Particles / 100ml	Class
A:	> 4 $\mu$ 276210	A9
B:	> 6 $\mu$ 28960	B7
C:	> 14 $\mu$ 460	C4
D:	> 21 $\mu$ 40	D3
E:	> 38 $\mu$ 20	E4
F:	> 70 $\mu$ 0	F000



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