

Unit ID **AUDI S4 CWGD ST3**

Component **Petrol Engine**

Current sample number **5140142**



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OELCHECK GmbH · Kerschelweg 28 · 83098 Brannenburg

Machine type: **PKW Turbobenzinmotor**

Manufacturer: **Audi**

Oil brand name: **Mobil 1 ESP 0W-30**



Previously used oil: **Mobil 1 ESP x2 0W-20**

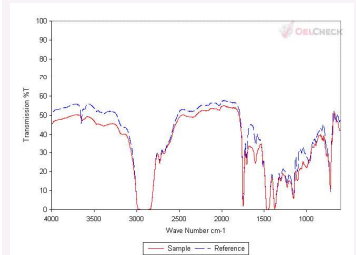
Oil quantity in system: **7.4 l**

Diagnosis for the current laboratory values

The wear values are in the normal range. The fuel content has increased but is not yet critical. It is important that you determine the cause of the higher fuel content in order to avoid further increase! The BN (base number) has slightly decreased. According to the information you provided, the oil has been changed already. I recommend that you send the next sample at the next service interval or at your regular inspection for trend analysis.

Christoph Rößner (CLS)**Sample Rating****Caution**

ANALYSIS RESULTS			Current sample	Previous samples	
LAB NUMBER			5140142	4917317	
SAMPLE RATING					
Date tested			06.04.2023	28.07.2022	
Date of sample taken			02.04.2023	26.07.2022	
Date of last oil change			23.08.2022	23.12.2021	
Top-up since change			-	0	
Operating time since change			-	7000	
Total operating time	km		8450	-	
Oil changed			yes	yes	
WEAR					
Iron	Fe	mg/kg	22	28	
Chromium	Cr	mg/kg	0	1	
Tin	Sn	mg/kg	3	0	
Aluminum	Al	mg/kg	4	4	
Nickel	Ni	mg/kg	0	0	
Copper	Cu	mg/kg	2	4	
Lead	Pb	mg/kg	0	0	
Manganese	Mn	mg/kg	0	0	
PQ index	-		< 25	< 25	
CONTAMINATION					
Silicon	Si	mg/kg	10	8	
Potassium	K	mg/kg	2	3	
Sodium	Na	mg/kg	5	4	
Tungsten	W	mg/kg	-	1	
Bismuth	Bi	mg/kg	-	1	
Water	%		< 0.10	< 0.10	
IR Glycol	-		negative	negative	
Gasoline	%		1.8	1.0	
OIL CONDITION					
Viscosity at 40°C	mm²/s		55.38	40.61	
Viscosity at 100°C	mm²/s		10.87	8.16	
Viscosity index	-		192	180	
Oxidation	A/cm		5	3	
Nitration	A/cm		1	0	
Sulfation	A/cm		0	0	
IR index	-		96.62	96.91	
Dispersancy	%		89	93	
Soot index	-		0.2	0.2	
ADDITIVES					
Calcium	Ca	mg/kg	2010	1642	
Magnesium	Mg	mg/kg	8	9	
Boron	B	mg/kg	273	524	
Zinc	Zn	mg/kg	922	887	
Phosphorus	P	mg/kg	801	745	
Barium	Ba	mg/kg	0	0	
Molybdenum	Mo	mg/kg	104	271	
Sulphur	S	mg/kg	1843	1827	
Zirconium	Zr	mg/kg	3	18	

Bottle and cap**Infrared Spectrum****CCD oil spot**

LAB REPORT



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ADDITIONAL TESTS				
BN	mgKOH/g	6.94	6.57	

