

LAB REPORT

Unit ID **Utility vehicle**
Component **Diesel engine**
Current sample number **1700865**



OELCHECK GmbH · Postfach 1116 · 83094 Brannenburg

Machine type: **LKW**
Manufacturer: **Mercedes**
Oil brand name: **SAE 5W-40**
Oil quantity in system: **32 l**

Example report
Analysis scope: Analysis-Kit 2

Diagnosis for the current laboratory values

Wear metals are only present in negligible concentrations. Hardly any abrasive or corrosive wear is therefore visible. If no oil change has happened yet, it is possible to continue using the oil under similar operating conditions and under continuation of the usual maintenance schedule. As you informed us, 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.

Carsten Heine

Sample Rating



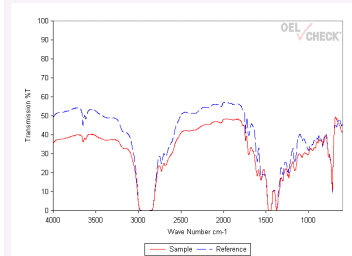
normal

ANALYSIS RESULTS			Current sample	Previous samples
LAB NUMBER			1700865	1700866
SAMPLE RATING				
Date tested			08.12.2014	23.10.2014
Date of sample taken			22.11.2014	18.10.2014
Date of last oil change			22.11.2014	18.10.2014
Top-up since change	l		0	0
Operating time since change	km		26000	32662
Total operating time	km		58586	32662
Oil changed			yes	yes
WEAR				
Iron	Fe	mg/kg	10	37
Chrome	Cr	mg/kg	0	0
Tin	Sn	mg/kg	0	0
Aluminum	Al	mg/kg	5	15
Nickel	Ni	mg/kg	0	0
Copper	Cu	mg/kg	4	3
Lead	Pb	mg/kg	1	1
PQ index	-		< 25	< 25
CONTAMINATION				
Silicon	Si	mg/kg	4	3
Potassium	K	mg/kg	14	6
Sodium	Na	mg/kg	0	4
Water	%		< 0.10	< 0.10
IR Glycol	-		negative	negative
Diesel fuel	%		< 0.30	0.34
Biodiesel	%		< 0.30	< 0.30
Soot content	%		0.2	< 0.1
OIL CONDITION				
Viscosity at 40°C	mm ² /s		92.76	92.32
Viscosity at 100°C	mm ² /s		13.11	14.18
Viscosity index	-		140	158
Oxidation	A/cm		14	12
Nitration	A/cm		8	6
Sulfation	A/cm		0	0
Dispersancy	%		89	97
ADDITIVES				
Calcium	Ca	mg/kg	2674	3893
Magnesium	Mg	mg/kg	369	10
Boron	B	mg/kg	270	108
Zinc	Zn	mg/kg	958	1245
Phosphorus	P	mg/kg	839	1115
Barium	Ba	mg/kg	0	0
Molybdenum	Mo	mg/kg	19	120
Sulphur	S	mg/kg	5565	6761
ADDITIONAL TESTS				
BN	mgKOH/g		15.45	14.63

Bottle and Cap



Infrared Spectrum



CCD oil spot

