## LAB REPORT

Unit ID

## Component

Lab number

**Carsten Heine** 

Diesel engine

next sample at the next service interval or at your regular inspection for trend analysis.

Utility vehicle

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. According to the information you provided, the oil has already been changed. I recommend that you send the

1700865





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Example report Analysis scope: Analysis-Kit 2

Diagnosis for the current laboratory values

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

## Sample Rating

## normal

ANALYSIS RESUL	TS		Current sample		Previous samples	Bottle and cap
LAB NUMBER			1700865	1700866		
SAMPLE RATING						OEL CHECK
Date tested			12.12.2023	26.10.2023		
Date of sample taken			22.11.2023	18.10.2023		
Date of last oil change		22.11.2023	18.10.2023			
Top-up since change		0	0			
Operating time since change km		26000	32662			
Total operating time km		58586	32662			
Oil changed		KIII	yes	yes		
WEAR				yes		
Iron	Fe	mg/kg	10	37		
Chrome	Cr	mg/kg	0	0		
Tin	Sn	mg/kg	0	0		Infrared Spectrum
Aluminum	Al	mg/kg	5	15		
Nickel	Ni	mg/kg	0	0		100 50
Copper	Cu	mg/kg	4	3		80 -
Lead	Pb	mg/kg	1	1		70 - 5 60 -
PQ index	-	3.3	< 25	< 25		
CONTAMINATION						to the second se
Silicon	Si	mg/kg	4	3		
Potassium	к	mg/kg	14	6		
Sodium	Na	mg/kg	0	4		
Water	%		< 0.10	< 0.10		Wave Number cm-1 Sample Reference
IR Glycol	-		negative	negative		Compe Postence
Diesel fuel	%		< 0.3	0.3		
Biodiesel	%		< 0.3	< 0.3		CCD oil spot
Soot content	%		0.2	< 0.1		
OIL CONDITION						CHECK.
Viscosity at 40°C	mm²/s		92.76	92.32		
Viscosity at 100°C	mm²/s		13.11	14.18		
Viscosity index	-		140	158		
Oxidation	A/cm		14	12		
Nitration	A/cm		8	6		
Sulfation	A/cm		0	0		
IR index	-		96.08	98.83		
Dispersancy	%		89	97		
ADDITIVES						
Calcium	Ca	mg/kg	2674	3893		
Magnesium	Mg	mg/kg	369	10		
Boron	В	mg/kg	270	108		
Zinc	Zn	mg/kg	958	1245		
Phosphorus	Р	mg/kg	839	1115		
Barium	Ва	mg/kg	0	0		
Molybdenum	Мо	mg/kg	19	120		
Sulphur	S	mg/kg	5565	6761		
ADDITIONAL TESTS	S					
DNI	KOLU		4 5 4 5	44.00		

14.63

15.45

mgKOH/g

BN