

LAB REPORT



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Unit ID **Turbocharger**
Component **Differential**
Current sample number **1700979**

page 1 of 1

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Machine type: **L 580 Radlader**
Manufacturer: **Liebherr**
Oil brand name: **Liebherr Gear Basic 90 LS**
Oil quantity in system: **56 l**

Example report
Analysis scope: Analysis-Kit 2

Diagnosis for the current laboratory values

The values for wear metals have only increased slightly. This low wear is within the normal range. 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. I recommend that you send the next sample at the next service interval or at your regular inspection for trend analysis.

Dipl.-Ing. Stefan Mitterer

Sample Rating



normal

ANALYSIS RESULTS			Current sample	Previous samples	
LAB NUMBER			1700979		
SAMPLE RATING					
Date tested			23.03.2015		
Date of sample taken			21.03.2015		
Date of last oil change			11.02.2015		
Top-up since change	l		0		
Operating time since change	h		250		
Total operating time	h		1720		
Oil changed			no		
WEAR					
Iron	Fe	mg/kg	36		
Chrome	Cr	mg/kg	1		
Tin	Sn	mg/kg	0		
Aluminum	Al	mg/kg	1		
Nickel	Ni	mg/kg	0		
Copper	Cu	mg/kg	5		
Lead	Pb	mg/kg	0		
PQ index	-		< 25		
CONTAMINATION					
Silicon	Si	mg/kg	5		
Potassium	K	mg/kg	6		
Sodium	Na	mg/kg	9		
Water	%		< 0.10		
OIL CONDITION					
Viscosity at 40°C	mm ² /s		192.64		
Viscosity at 100°C	mm ² /s		17.14		
Viscosity index	-		95		
Oxidation	A/cm		2		
ADDITIVES					
Calcium	Ca	mg/kg	8		
Magnesium	Mg	mg/kg	2		
Boron	B	mg/kg	0		
Zinc	Zn	mg/kg	5		
Phosphorus	P	mg/kg	2296		
Barium	Ba	mg/kg	0		
Molybdenum	Mo	mg/kg	2		
Sulphur	S	% Wt.	2.34		
ADDITIONAL TESTS					
AN / NN	mgKOH/g		3.11		

Bottle and Cap



Infrared Spectrum

