

Unit ID **Pushing unit**  
Component **Diesel engine**  
Current sample number **1700930**

OELCHECK GmbH · Postfach 1116 · 83094 Brannenburg

Machine type: **SBV 6 M 628**  
Manufacturer: **KHD**  
Oil brand name: **Shell Gadinia 40**  
Oil quantity in system: **350 l**

Example report  
Analysis scope: Analysis-Kit 2

### Diagnosis for the current laboratory values

The wear values are in 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. Rüdiger Krethe

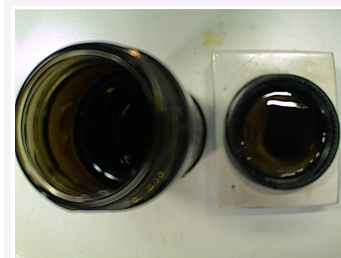
### Sample Rating



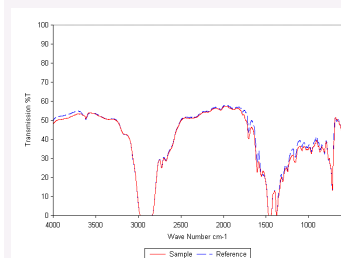
normal

ANALYSIS RESULTS			Current sample	1 previous samples not shown →		
LAB NUMBER			1700930	1700931	1700932	1700933
SAMPLE RATING			✓	✓	✓	✓
Date tested			09.02.2010	14.05.2009	16.01.2009	15.10.2008
Date sample taken			29.01.2010	09.05.2009	11.01.2009	09.10.2008
Date of last oil change			30.05.2009	26.08.2006	26.08.2006	28.08.2006
Top-up since change			-	70	45	25
Operating hrs since change	h		2820	10910	9700	8520
Total operating hrs	h		71200	68150	66900	65750
Oil changed			no	no	no	no
WEAR						
Iron	Fe	mg/kg	2	3	3	3
Chrome	Cr	mg/kg	0	0	0	0
Tin	Sn	mg/kg	0	0	0	0
Aluminum	Al	mg/kg	1	2	2	1
Nickel	Ni	mg/kg	0	0	0	0
Copper	Cu	mg/kg	0	0	0	0
Lead	Pb	mg/kg	0	0	0	0
PQ index	-		OK	OK	OK	OK
CONTAMINATION						
Silicon	Si	mg/kg	3	2	4	3
Potassium	K	mg/kg	2	1	1	0
Sodium	Na	mg/kg	11	13	14	12
Water	%		< 0.10	< 0.10	< 0.10	< 0.10
Glycol	-		negative	negative	negative	negative
Diesel fuel	%		< 0.30	< 0.30	< 0.30	< 0.30
Biodiesel	%		< 0.30	< 0.30	< 0.30	< 0.30
Soot content	%		< 0.1	0.1	< 0.1	< 0.1
OIL CONDITION						
Viscosity at 40°C	mm²/s		138.28	134.58	136.13	134.77
Viscosity at 100°C	mm²/s		14.21	14.12	14.12	14.07
Viscosity index	-		100	102	101	101
Oxidation	A/cm		5	8	9	6
Nitration	A/cm		4	7	7	6
Sulfation	A/cm		0	-	0	-
Dispersancy	%		100	100	99	86
ADDITIVES						
Calcium	Ca	mg/kg	3637	3747	3337	3737
Magnesium	Mg	mg/kg	17	20	16	21
Boron	B	mg/kg	0	1	1	1
Zinc	Zn	mg/kg	417	429	387	404
Phosphorus	P	mg/kg	356	388	373	390
Barium	Ba	mg/kg	0	0	0	0
Molybdenum	Mo	mg/kg	0	0	0	0
Sulphur	S	mg/kg	5797	9126	8705	9392
ADDITIONAL TESTS						
BN	mgKOH/g		12.43	12.09	11.78	12.52

Bottle and Cap



Infrared Spectrum



CCD oil spot

