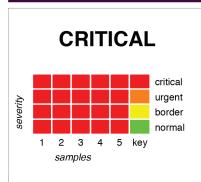
Report Example Oil Analysis





PROBLEM SEVERITY



Vehicle : B15 Alt. ID : - -

Model : FORKLIFT SZMC3500 WHEEL LOADER

Component : ENGINE

Model : FORKLIFT SZMC3500

Code : 1BBPMT

Job No. : -Site : PLANT

Oil : AUTOLUBBE 800 SAE 15W40

Fuel Type :

DIAGNOSIS

5.) Sample Number E534386 on 04.02.2019 smr 1916 HRS Viscosity appears low for this grade of oil. 4.5% Fuel dilution taking place - check fuel system for malfunction.

Top end wear rates are high. Check that blow-by is not excessive. Critical silicon (dust) level in the oil - check air intake system for leaks and for defective oil filler cap, breather or dipstick and dipstick holder.

The oil is not fit for further use due to contamination and degradation. Change the oil. Please return feedback. REPEAT PROBLEM fuelx6. REPEAT PROBLEM air-cleanerx2. **** Workshop@bertsbricks_co_za: change oil filters replace air cleaner element. On 13 Feb 2019 @ 1870

PREVIOUS HISTORY

DIAGNOSES

1.) Sample Number E208797 on 18.05.2018 smr 653 HRS Wear rates are normal for a unit bedding in. 9% Fuel dilution taking place - check fuel system for malfunction. 0.2% Water present in the oil - check for point of entry. The oil is not fit for further use due to contamination and degradation. Change the oil and oil filters. Please return feedback. REPEAT PROBLEM fuelx2.

2.) Sample Number E245869 on 02.07.2018 smr 928 HRS Viscosity appears low for this grade of oil. 8.5% Fuel dilution taking place - check fuel system for malfunction. Warning, high levels of fuel can dilute wear and other contaminant levels making readings appear normal or low. Fuel dilution and decreased viscosity makes the oil unfit for further use. Change the oil and oil filters. Please return feedback. REPEAT PROBLEM fuelx3.

3.) Sample Number E306862 on 14.09.2018 smr 1290 HRS Viscosity appears low for this grade of oil. 10% Fuel dilution taking place - check fuel system for malfunction. Warning, high levels of fuel can dilute wear and other contaminant levels making readings appear normal or low. Fuel dilution and decreased viscosity makes the oil unfit for further use. Change the oil and oil filters. Please return feedback. REPEAT PROBLEM fuelx4.

4.) Sample Number E457603 on 29.11.2018 smr 1635 HRS Viscosity appears low for this grade of oil. All wear rates are high. Critical silicon (dust) level in the oil - check air intake system for leaks and for defective oil filler cap, breather or dipstick and dipstick holder.

4.5% Fuel dilution taking place - check fuel system for malfunction.

4.5% Fuel dilution taking place - check fuel system for malfunction. Check that blow-by is not excessive. Check for low oil pressure. The oil is not fit for further use due to contamination and degradation. Change the oil. Please return feedback. REPEAT PROBLEM fuelx5.

FEEDBACK

On 31 May 2018 @ 712

Workshop@bertsbricks_co_za: change oil filters oc ok replace oil filler cap o ring(water) check fan belt idling.

On 13 Aug 2018 @ 991

Workshop@bertsbricks_co_za: change oil filters check fuel and idling o. C. Ok.

On 10 Oct 2018 @ 1366

Workshop@bertsbricks_co_za: change oil filters check for smoking o. C. Ok.

On 07 Dec 2018 @ 1662

Workshop@bertsbricks_co_za: change oil filters repair air intake pipe.









Report Example Oil Analysis

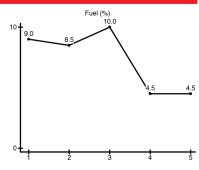


	Vehicle: B15 - ENGINE - Alt. ID:												
	SAMPLE	DATE	LAB	OIL			OIL IN	FILTER	OIL				
	NUMBER	SAMPLED	DATE	CONSUMPTION	SMR	UNITS	SERVICE	CHANGE	DRAIN	RRI			
1	E208797	18.05.18	21.05.18	0.00	653	HRS	364	No	No	250			
2	E245869	02.07.18	05.07.18	0.01	928	HRS	216	No	No	250			
3	E306862	14.09.18	17.09.18	0.01	1290	HRS	299	No	No	250			
4	E457603	29.11.18	29.11.18	0.01	1635	HRS	269	No	No	250			
5	E534386	04.02.19	05.02.19	0.01	1916	HRS	254	No	No	250			

WEAR METALS FUEL

Sample Sa

4 0 9



CONTAMINANTS

Sample	Silicon	Sodium	Manganes	Soot Value	Soot %	Oxidation	Sulphate	Nitrates	Fuel (%)	Water (%)
1	11	17	1	43	8.0	15	20	12	9.0	0.2
2	12	3	0	19	0.4	13	20	9	8.5	ND
3	19	2	0	29	0.6	16	22	11	10.0	ND
4	139	4	2	34	0.7	15	22	10	4.5	ND
5	96	4	1	24	0.5	13	20	10	4.5	ND

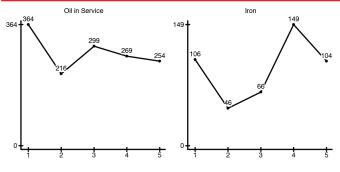
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30 spectrometric analyses are carried out on all samples but only relevant results are reported in parts per million.

ADDITIVES & LUBRICANT CONDITION									NT CONDITION	VISCOSITY					
	_											Viscosity in	cSt @ 40 C		
Sample	Magnesium	Calcium	Molybdenum	Zinc	Phosphorous	Boron	Sulphur	TBN(D4739)	TBN by FTIR	Viscosity in cSt @ 40 C Viscosity in cSt @ 100 C	81.4	71.6	66.6	74.7	81.4
1	9	2119	0	837	731	76	6003	3.8		62.6 11.0					
2	10	2655	1	972	870	149	5733		6.2	71.6 10.7					
3	12	2351	2	997	785	128	5230	5.3		66.6 10.2					
4	17	2450	2	1006	806	84	4583		6.3	74.7 11.1					
5	18	2775	1	1080	889	87	4704		6.8	81.4 11.5	0 + 1	2	3	4	5

30 spectrometric analyses are carried out on all samples but only relevant results are reported in parts per million.

GRAPHICAL REPRESENTATION OF KEY DATA



SABS ISO 9001 | ISO 14001 | **SANS** 17025 Form ds74 | Revision date Mar 1019

