

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934 038332-1006 - Rear Differential

Sample No: VCE104423

Oil Type: GEAR OIL SAE 80W90



AMERICAN STATE EQUIPMENT CO.
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SAMPLE INFORMATION

Sample Number	VCE104423	DJJ005708	DJJ009266	LHMC040640
Sample Date	01 May 2019	23 Jan 2013	28 Mar 2012	28 Jul 2011
Machine Hours	13156	7377	6219	5209
Oil Hours	0	1000	2000	1000
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	124	131.5	131.5	129.6
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CONTAMINATION

Silicon	ppm	<1	12	3	9
Sodium	ppm	<1	<1	4	4
Potassium	ppm	30	2	0	1



WEAR METALS

Iron	ppm	26	35	73	50
Copper	ppm	10	9	20	12
Lead	ppm	2	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	2	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	1	2	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	7	22	9	17
Magnesium	ppm	1	1	0	2
Zinc	ppm	9	21	28	26
Phosphorus	ppm	671	792	982	1047
Barium	ppm	0	0	0	<1
Boron	ppm	19	127	172	193

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 8618298
 Signed: Wes Davis
 Report Date: 05 Jun 2019



GRAPHS

