

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A934 038332-1006 - Front Differential

Sample No: VCE215350

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	VCE215350	DJJ009552	DJJ009259	LHMC040549
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	N/A	Changed	Changed	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL

**AMERICAN STATE EQUIPMENT CO.**  
 2400 NORTH 14TH AVENUE  
 WAUSAU, WI  
 US 54401  
 Contact: CHRIS BARTNIK  
 cbartnik@amstate.com  
 T: (715)675-6900  
 F: (715)675-9748



#### OIL CONDITION

Visc @ 40°C	cSt	126	163.9	136.6	136.7
-------------	-----	-----	-------	-------	-------



#### CONTAMINATION

Silicon	ppm	<1	3	1	5
Sodium	ppm	<1	0	0	<1
Potassium	ppm	15	<1	2	<1



#### WEAR METALS

Iron	ppm	4	6	6	7
Copper	ppm	1	2	3	2
Lead	ppm	1	<1	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	<1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	1	<1	0	<1
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	9	16	10	15
Magnesium	ppm	<1	<1	0	1
Zinc	ppm	6	7	5	8
Phosphorus	ppm	704	951	972	1007
Barium	ppm	0	0	0	0
Boron	ppm	4	228	214	227

#### 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: 8618296  
 Signed: Wes Davis  
 Report Date: 05 Jun 2019



### GRAPHS

