

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [[AZCON]] LIEBHERR A934C 038332-1006 - Front Right Wheel

Sample No: LH0253876

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LH0253876	VCE104381	DJJ005770	DJJ007723
Sample Date	11 Aug 2023	01 May 2019	23 Jan 2013	28 Mar 2012
Machine Hours	13950	13156	7377	6219
Oil Hours	0	0	1000	2000
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	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	183	127	147.8	153.3
-------------	-----	-----	-----	-------	-------



#### CONTAMINATION

Silicon	ppm	3	3	2	7
Sodium	ppm	4	6	5	7
Potassium	ppm	3	19	6	0



#### WEAR METALS

Iron	ppm	57	170	640	744
Copper	ppm	4	6	8	14
Lead	ppm	0	2	1	1
Tin	ppm	<1	0	0	0
Aluminum	ppm	1	<1	<1	2
Chromium	ppm	<1	1	2	3
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	<1	2	1	1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	3	7	8
Vanadium	ppm	0	0	<1	<1



#### ADDITIVES

Calcium	ppm	29	11	24	16
Magnesium	ppm	1	8	1	1
Zinc	ppm	31	18	60	75
Phosphorus	ppm	2091	620	1026	1052
Barium	ppm	2	0	0	0
Boron	ppm	30	5	23	18

#### Diagnosis

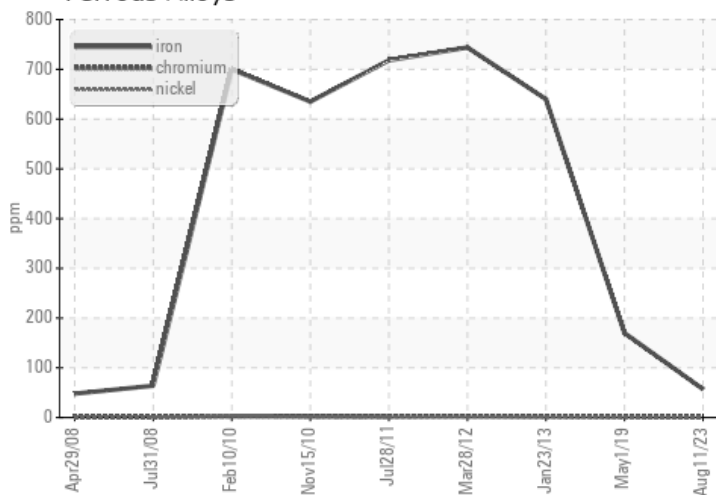
Resample at the next service interval to monitor. NOTE: one of two samples received with same ID and sampling date. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10635466  
 Signed: Don Baldrige  
 Report Date: 10 Sep 2023

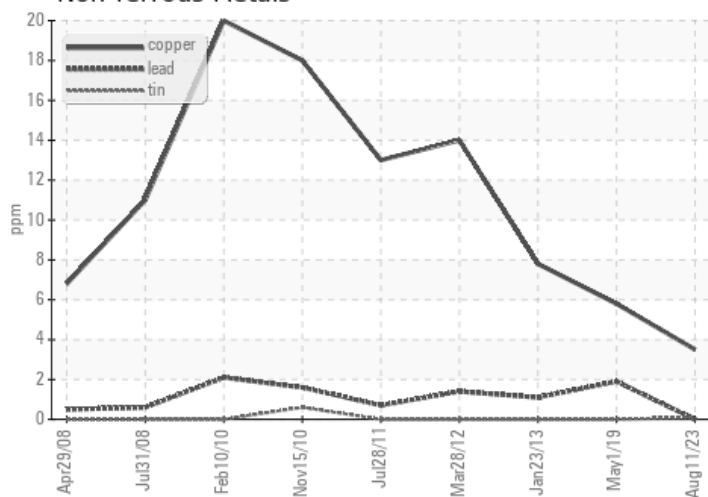


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

