

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 064064-1007 - Rear Right Wheel Hub

Sample No: LH0290239

Oil Type: GEAR OIL LS 80W90



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



Sample Information

Sample Number	LH0290239	LH0272767	LH0254767	LH0243217
Sample Date	27 Jun 2024	21 Dec 2023	23 Jun 2023	10 Jan 2023
Machine Hours	26934	25949	24973	24002
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	94.5	121	140	148



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	2	4	3
Sodium	ppm	1	0	<1	2
Potassium	ppm	<1	2	2	<1



Wear Metals

Iron	ppm	26	18	22	28
Copper	ppm	2	4	3	3
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	2	<1	<1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	0	1	<1	<1
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	781	46	40	54
Magnesium	ppm	6	8	9	8
Zinc	ppm	356	9	36	<1
Phosphorus	ppm	1030	750	1144	918
Barium	ppm	0	0	2	0
Boron	ppm	0	3	8	10

Diagnosis

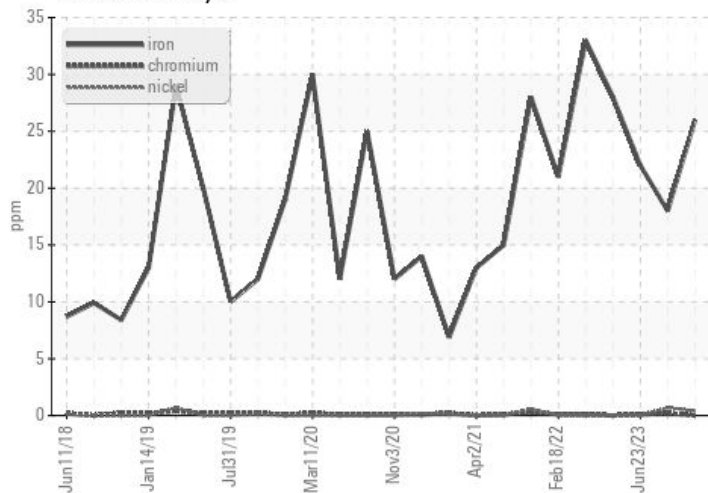
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot: LEC0008
 Unique No: 11126016
 Signed: Don Baldrige
 Report Date: 17 Jul 2024

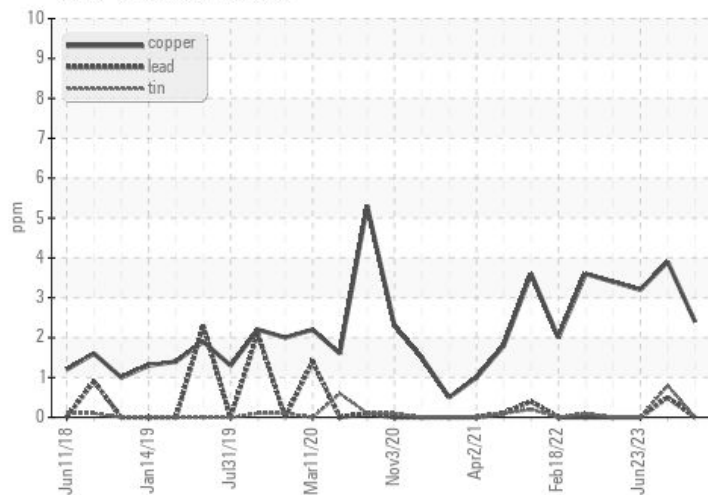


Graphs

Ferrous Alloys



Non-ferrous Metals



● Viscosity @ 40°C

