

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 064064-1007 - Rear Right Wheel Hub

Sample No: LH0254767

Oil Type: GEAR OIL SAE 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	LH0254767	LH0243217	LH0217649	LH0217492
Sample Date	23 Jun 2023	10 Jan 2023	05 Jul 2022	18 Feb 2022
Machine Hours	24973	24002	23011	22205
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	140	148	138	136
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CONTAMINATION

Silicon	ppm	4	3	4	2
Sodium	ppm	<1	2	2	<1
Potassium	ppm	2	<1	1	<1



WEAR METALS

Iron	ppm	22	28	33	21
Copper	ppm	3	3	4	2
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	<1	<1	1	1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	40	54	118	96
Magnesium	ppm	9	8	15	21
Zinc	ppm	36	<1	51	39
Phosphorus	ppm	1144	918	1103	884
Barium	ppm	2	0	0	0
Boron	ppm	8	10	25	34

Diagnosis

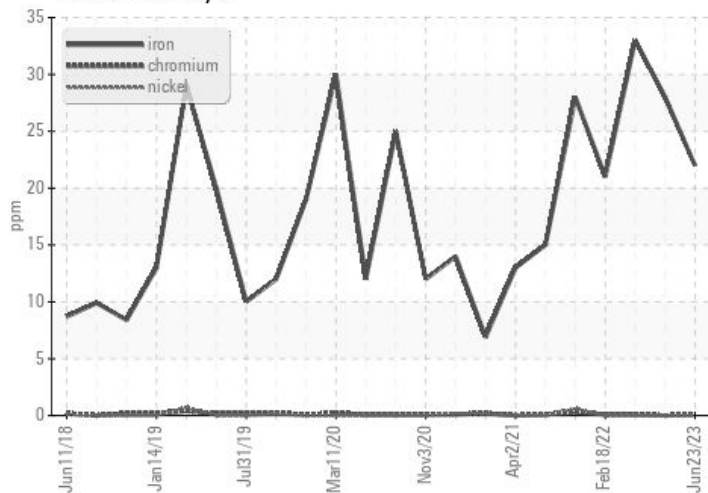
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
Unique No: 10546771
Signed: Angela Borella
Report Date: 07 Jul 2023

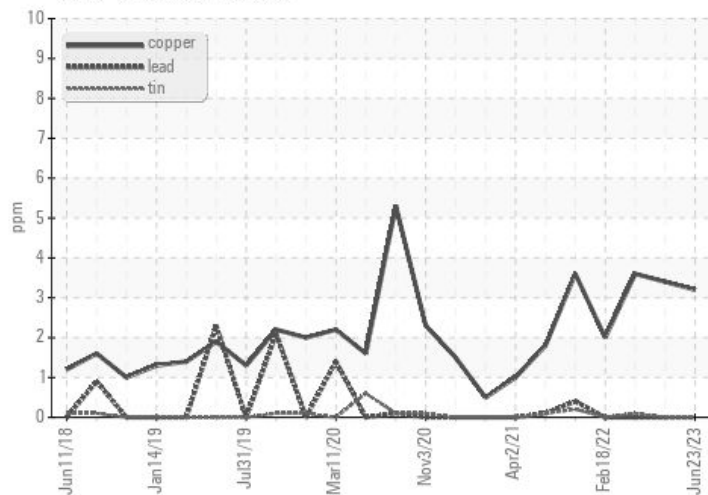


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

