

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 064064-1007 - Front Left Wheel Hub

Sample No: LH0254764

Oil Type: GEAR OIL SAE 80W90



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SAMPLE INFORMATION

Sample Number	LH0254764	LH0243221	LH0217640	LH0217497
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	176	177	159	138
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CONTAMINATION

Silicon	ppm	11	6	5	10
Sodium	ppm	1	4	3	2
Potassium	ppm	2	0	3	2



WEAR METALS

Iron	ppm	53	60	43	135
Copper	ppm	3	1	1	3
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	<1	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	26	48	99	107
Magnesium	ppm	5	4	11	23
Zinc	ppm	25	15	29	44
Phosphorus	ppm	1941	1711	1587	988
Barium	ppm	2	0	0	0
Boron	ppm	5	6	21	53

Diagnosis

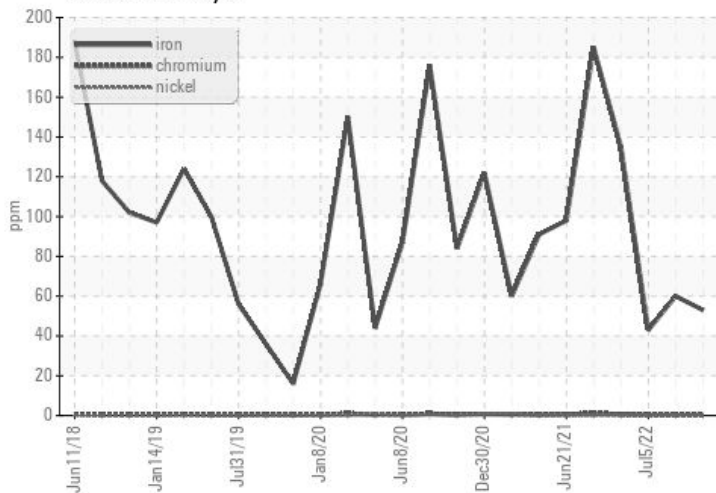
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008
Unique No: 10546781
Signed: Angela Borella
Report Date: 07 Jul 2023

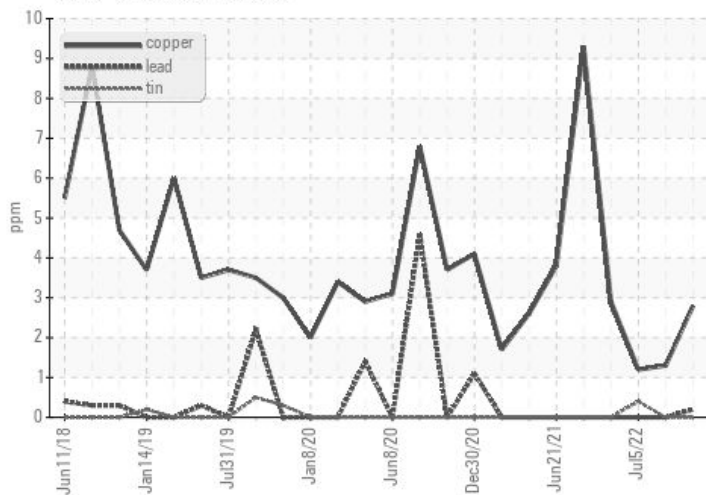


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

