

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 064064-1007 - Front Right Wheel Hub

Sample No: LH0254765

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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SAMPLE INFORMATION

Sample Number	LH0254765	LH0243219	LH0217657	LH0217496
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	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	178	185	155	138
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CONTAMINATION

Silicon	ppm	11	16	43	11
Sodium	ppm	<1	5	7	1
Potassium	ppm	2	2	6	2



WEAR METALS

Iron	ppm	133	244	601	141
Copper	ppm	19	24	37	4
Lead	ppm	<1	<1	<1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	3	4	12	2
Chromium	ppm	<1	1	3	<1
Molybdenum	ppm	<1	<1	<1	2
Nickel	ppm	0	<1	1	0
Titanium	ppm	1	4	4	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	2	3	6	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	36	25	33	103
Magnesium	ppm	4	4	4	23
Zinc	ppm	43	10	44	40
Phosphorus	ppm	1920	2181	1865	982
Barium	ppm	2	0	0	0
Boron	ppm	17	21	17	54

Diagnosis

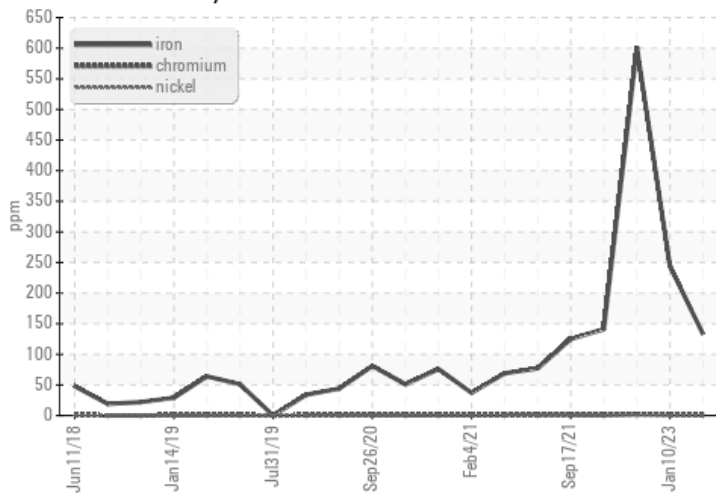
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
Unique No: 10546765
Signed: Angela Borella
Report Date: 07 Jul 2023

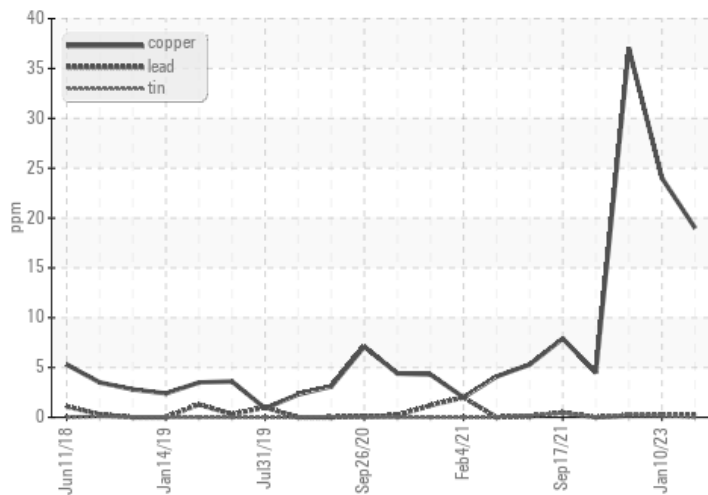


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

