

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 064064-1007 - Front Right Wheel Hub

Sample No: LH0272769

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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SAMPLE INFORMATION

Sample Number	LH0272769	LH0254765	LH0243219	LH0217657
Sample Date	21 Dec 2023	23 Jun 2023	10 Jan 2023	05 Jul 2022
Machine Hours	25949	24973	24002	23011
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	122	178	185	155



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	11	16	43
Sodium	ppm	0	<1	5	7
Potassium	ppm	1	2	2	6



WEAR METALS

Iron	ppm	115	133	244	601
Copper	ppm	10	19	24	37
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	3	4	12
Chromium	ppm	<1	<1	1	3
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	0	<1	1
Titanium	ppm	1	1	4	4
Silver	ppm	0	0	0	<1
Manganese	ppm	1	2	3	6
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	40	36	25	33
Magnesium	ppm	5	4	4	4
Zinc	ppm	11	43	10	44
Phosphorus	ppm	844	1920	2181	1865
Barium	ppm	1	2	0	0
Boron	ppm	17	17	21	17

Diagnosis

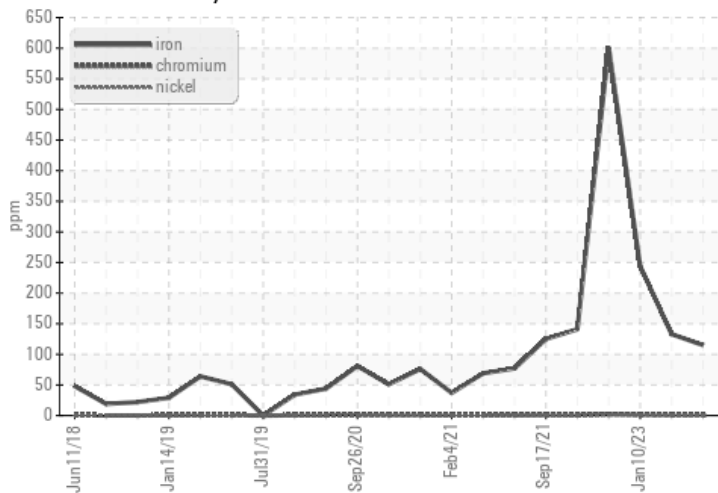
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10817557
 Signed: Jonathan Hester
 Report Date: 08 Jan 2024

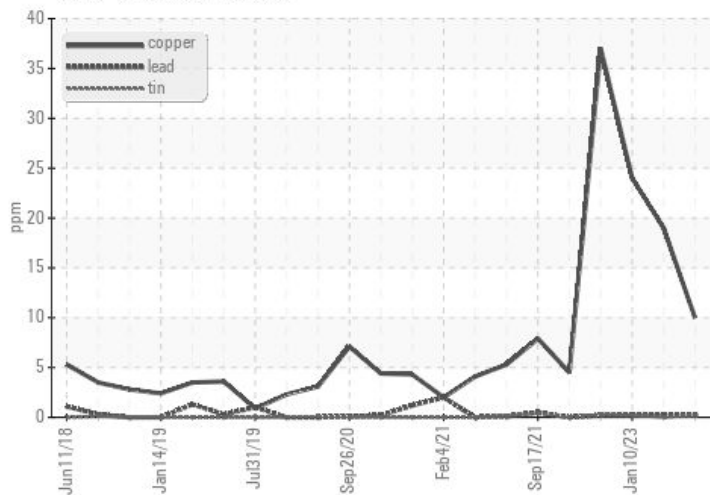


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

