

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 120113-1253 - Front Right Wheel Hub

Sample No: LH0258816

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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Sample Information

Sample Number	LH0258816	LH0264323	LH0220996	LH0200610
Sample Date	21 Mar 2024	27 Jul 2023	28 Nov 2022	28 Feb 2022
Machine Hours	10009	9001	7984	5989
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	84.9	91.9	102	134
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	5	3	2
Sodium	ppm	4	3	3	1
Potassium	ppm	2	0	0	0



Wear Metals

Iron	ppm	184	218	85	41
Copper	ppm	2	4	4	2
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	2
Chromium	ppm	1	2	<1	<1
Molybdenum	ppm	0	<1	<1	1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	2	1	<1	<1
Vanadium	ppm	0	<1	0	0



Additives

Calcium	ppm	365	251	208	142
Magnesium	ppm	8	4	16	16
Zinc	ppm	153	83	88	59
Phosphorus	ppm	701	642	615	785
Barium	ppm	0	0	0	0
Boron	ppm	9	14	13	21

Diagnosis

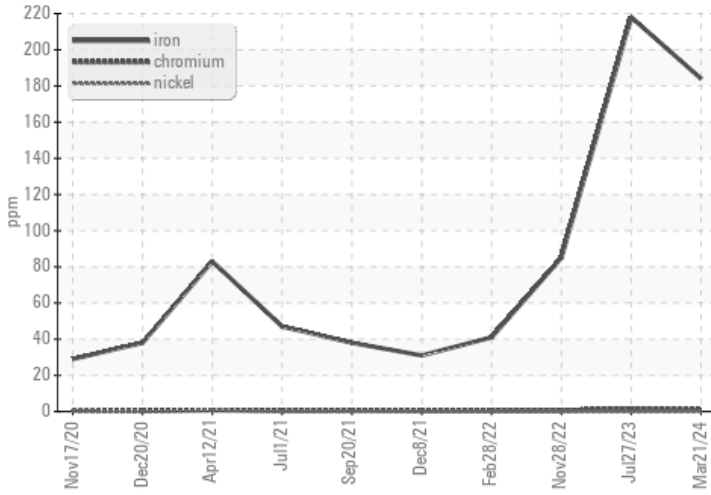
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10955341
 Signed: Jonathan Hester
 Report Date: 04 Apr 2024

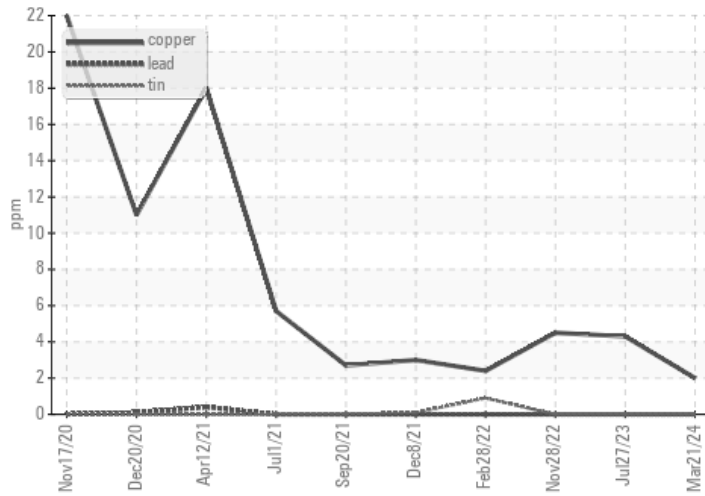


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

