

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 120113-1253 - Rear Left Wheel Hub

Sample No: LH0264784

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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Sample Information

Sample Number	LH0264784	LH0264324	LH0220991	LH0200607
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	121	132	128	139
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	2	2	2
Sodium	ppm	4	0	2	2
Potassium	ppm	2	<1	0	0



Wear Metals

Iron	ppm	35	34	32	18
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	0	<1	2	<1
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	5
Manganese	ppm	1	1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	70	85	89	92
Magnesium	ppm	5	9	20	16
Zinc	ppm	31	38	38	33
Phosphorus	ppm	936	828	712	761
Barium	ppm	0	<1	0	0
Boron	ppm	3	11	19	16

Diagnosis

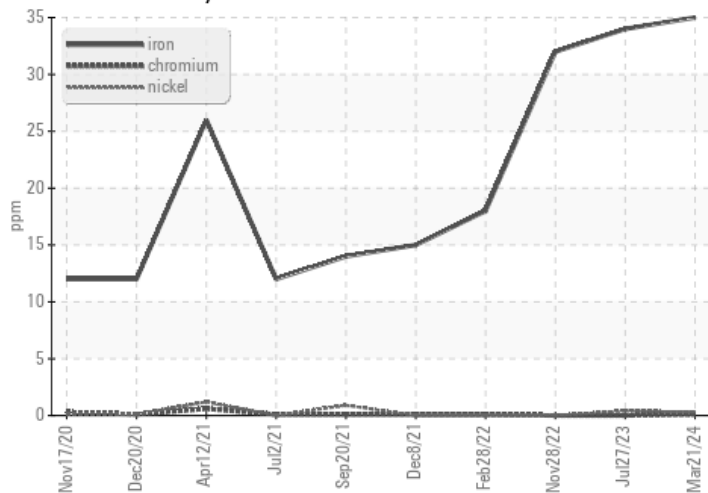
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10955344
 Signed: Jonathan Hester
 Report Date: 04 Apr 2024

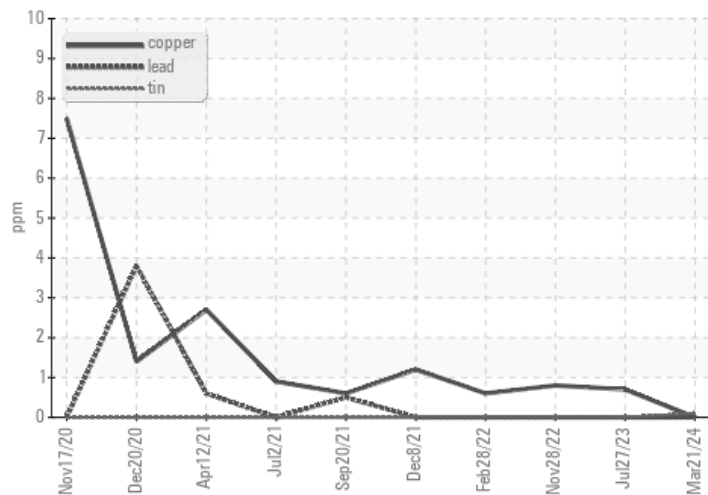


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

