

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1203-77107 - Rear Left Wheel Hub

Sample No: LH0272543

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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SAMPLE INFORMATION

Sample Number	LH0272543	LH0254741	LH0243165	LH0217034
Sample Date	29 Nov 2023	16 Jun 2023	22 Dec 2022	08 Dec 2021
Machine Hours	20037	18994	1790	15034
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	119	128	135	129
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	14	13	8
Sodium	ppm	0	1	0	0
Potassium	ppm	0	<1	4	2



WEAR METALS

Iron	ppm	43	78	82	44
Copper	ppm	2	3	3	4
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	2	0
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	0	<1	1	2
Nickel	ppm	0	0	0	<1
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	62	61	93	180
Magnesium	ppm	11	7	13	25
Zinc	ppm	27	33	47	90
Phosphorus	ppm	722	826	807	989
Barium	ppm	0	0	0	0
Boron	ppm	6	10	24	58

Diagnosis

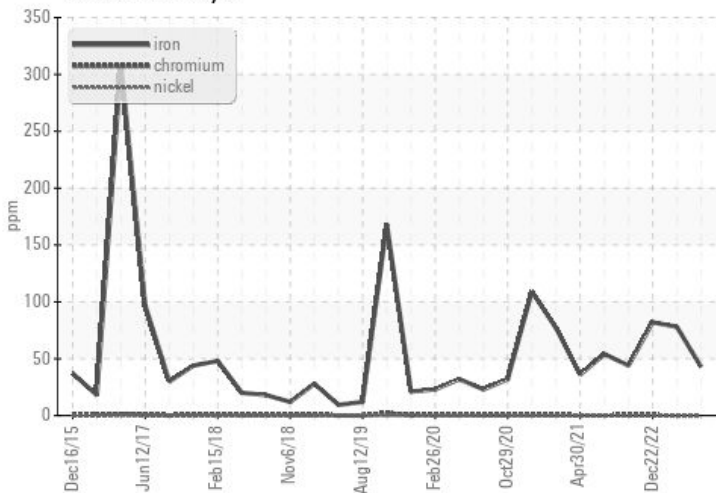
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10781650
 Signed: Sean Felton
 Report Date: 14 Dec 2023

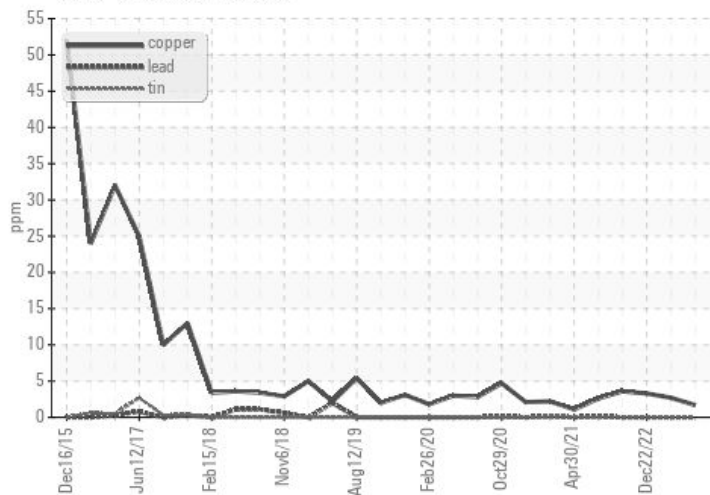


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

