

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1203-77107 - Front Right Wheel Hub

Sample No: LH0272542

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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SAMPLE INFORMATION

Sample Number	LH0272542	LH0243164	LH0217031	LH0200339
Sample Date	28 Nov 2023	22 Dec 2022	08 Dec 2021	09 Jul 2021
Machine Hours	20037	17940	15034	13990
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	120	131	130	126
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 8	● 24	● 6	● 10
Sodium	ppm	● 5	● 10	● 0	● 2
Potassium	ppm	● 9	● 7	● 2	● 4



WEAR METALS

Iron	ppm	● 229	● 402	● 39	● 28
Copper	ppm	● 17	● 47	● 1	● 2
Lead	ppm	● 0	● <1	● 0	● <1
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● <1	● 6	● 0	● 0
Chromium	ppm	● <1	● 2	● <1	● <1
Molybdenum	ppm	● 0	● <1	● 2	● 3
Nickel	ppm	● 0	● 0	● 0	● <1
Titanium	ppm	1	<1	<1	<1
Silver	ppm	0	● 0	0	0
Manganese	ppm	● 2	● 5	● <1	● <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	● 40	60	● 175	● 130
Magnesium	ppm	● 7	● 11	● 26	● 21
Zinc	ppm	● 20	● 42	● 89	● 62
Phosphorus	ppm	● 740	● 707	● 989	● 1223
Barium	ppm	● 0	● <1	● 0	● 0
Boron	ppm	● 10	● 4	● 71	● 302

Diagnosis

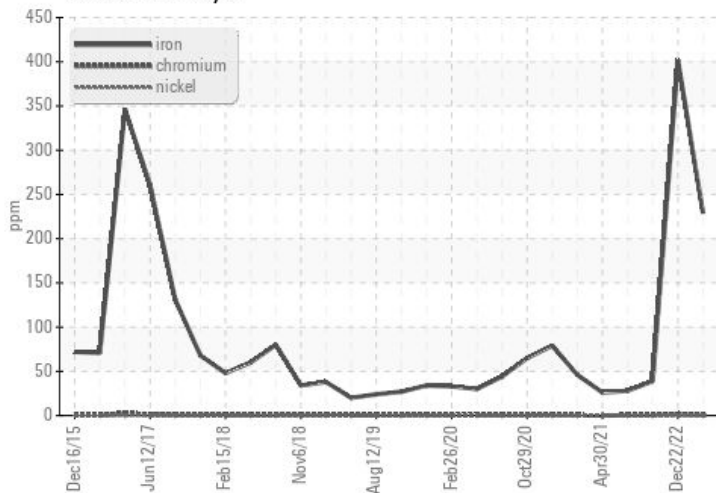
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10782720
 Signed: Sean Felton
 Report Date: 15 Dec 2023

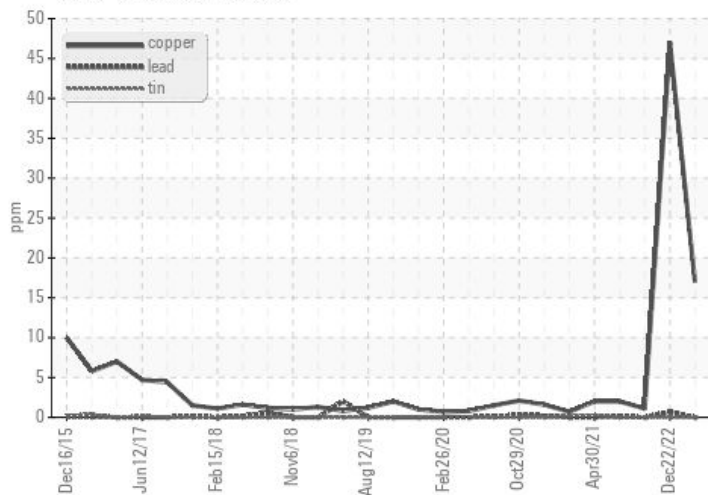


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

