

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1203-77107 - Front Left Wheel Hub

Sample No: LH0258821

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



SAMPLE INFORMATION

Sample Number	LH0258821	LH0272535	LH0254739	LH0254743
Sample Date	01 Mar 2024	28 Nov 2023	16 Jun 2023	16 Jun 2023
Machine Hours	20946	20037	18994	18994
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	119	121	132	133
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	6	12	41	20
Sodium	ppm	6	4	1	10
Potassium	ppm	0	2	3	4



WEAR METALS

Iron	ppm	130	120	66	334
Copper	ppm	9	10	<1	31
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	4	3
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	2	3	<1	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	51	65	98	46
Magnesium	ppm	3	9	11	8
Zinc	ppm	19	18	39	44
Phosphorus	ppm	933	949	880	732
Barium	ppm	0	0	0	0
Boron	ppm	<1	1	25	<1

Diagnosis

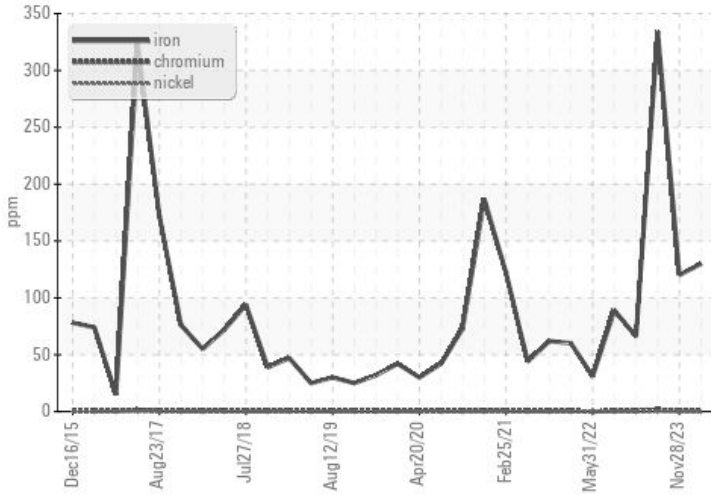
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10938561
 Signed: Don Baldrige
 Report Date: 23 Mar 2024

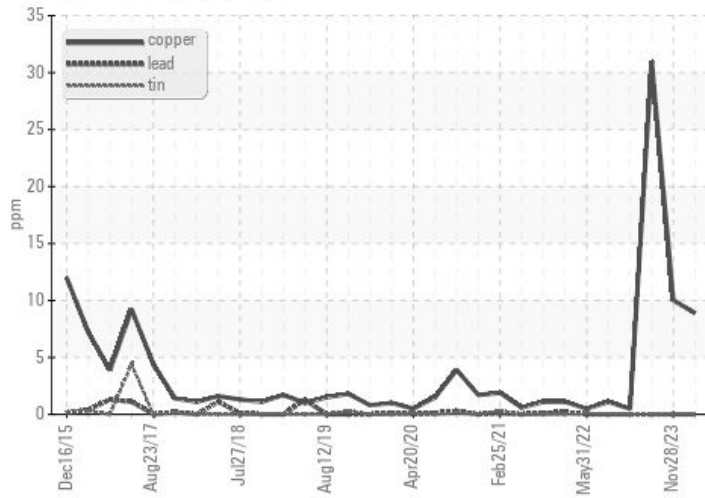


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

