

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-115016 - Rear Differential

Sample No: LH0272129

Oil Type: GEAR OIL LS 80W90



SAMPLE INFORMATION

Sample Number	LH0272129	LH0156672	LH0156616	LH0156714
Sample Date	19 Dec 2023	30 Aug 2023	25 Apr 2023	25 Jan 2023
Machine Hours	17781	16752	15594	14552
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	ATTENTION	ABNORMAL

PCA

400 2ND STREET
INTERNATIONAL FALLS, MN
US 56649
Contact: SCOTT LINDVALL
scottlindvall@boisepaper.com
T: (218)285-5706
F:



OIL CONDITION

Visc @ 40°C	cSt	58.3	86.9	95.0	87.2
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	7	19	108
Sodium	ppm	0	1	<1	5
Potassium	ppm	0	0	3	<1



WEAR METALS

Iron	ppm	10	37	60	413
Copper	ppm	3	7	4	36
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	2	7
Chromium	ppm	0	0	0	3
Molybdenum	ppm	0	1	2	1
Nickel	ppm	0	0	0	2
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	5
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	39	50	33	71
Magnesium	ppm	6	3	8	2
Zinc	ppm	241	193	68	186
Phosphorus	ppm	553	637	767	1255
Barium	ppm	0	0	0	1
Boron	ppm	0	4	15	89

Diagnosis

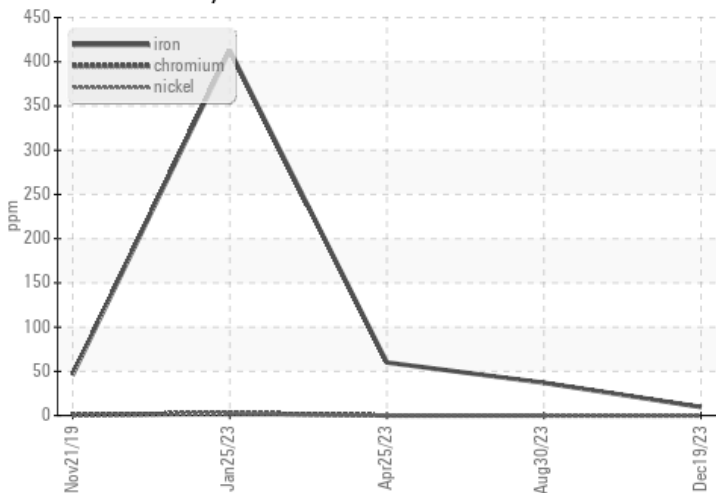
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot: PCAINT
Unique No: 10833626
Signed: Don Baldrige
Report Date: 18 Jan 2024

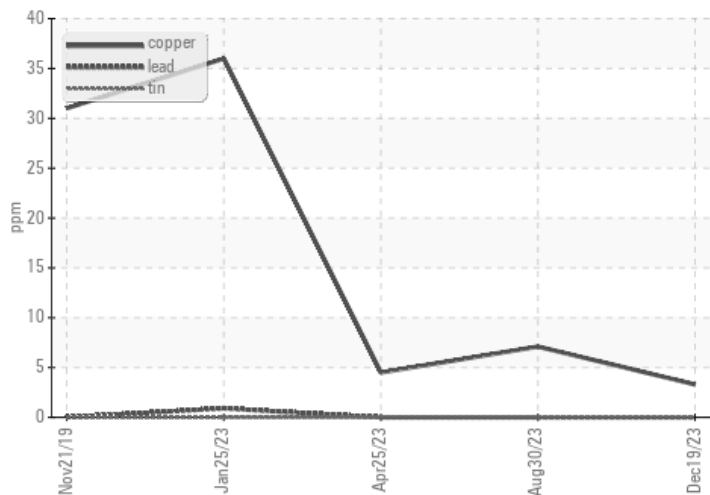


GRAPHS

Ferrous Alloys



Non-ferrous Metals



● Viscosity @ 40°C

