

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-109299 - Front Differential

Sample No: LH0272570

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



SAMPLE INFORMATION

Sample Number	LH0272570	LH0264382	LH0243152	LH0217668
Sample Date	19 Jan 2024	21 Jul 2023	21 Dec 2022	07 Jun 2022
Machine Hours	9018	8127	7018	6004
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTER METAL
2900 SHERMAN STREET
WAUSAU, WI
US 54401
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	121	133	134	141
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	1	2	2
Sodium	ppm	2	1	0	2
Potassium	ppm	0	1	3	0

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.



WEAR METALS

Iron	ppm	2	4	3	2
Copper	ppm	2	3	2	1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	1	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	0	<1	1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

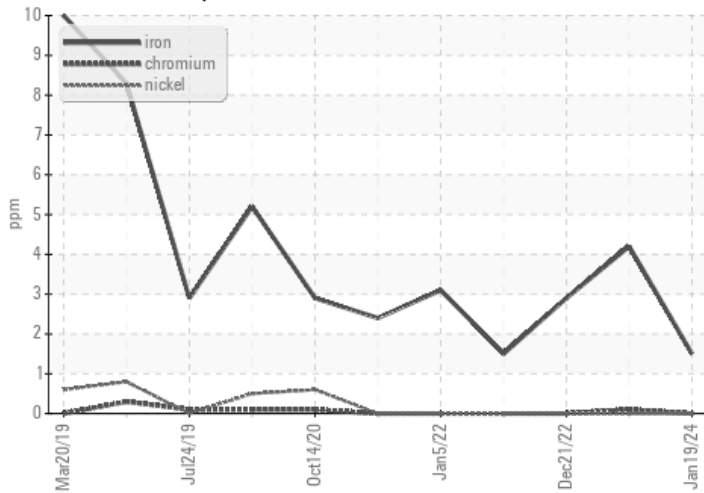
Calcium	ppm	50	41	85	59
Magnesium	ppm	4	8	10	3
Zinc	ppm	26	38	44	25
Phosphorus	ppm	768	1144	777	858
Barium	ppm	0	0	0	0
Boron	ppm	1	8	17	12

Depot: ALTWAUUS
Unique No: 10846836
Signed: Sean Felton
Report Date: 26 Jan 2024

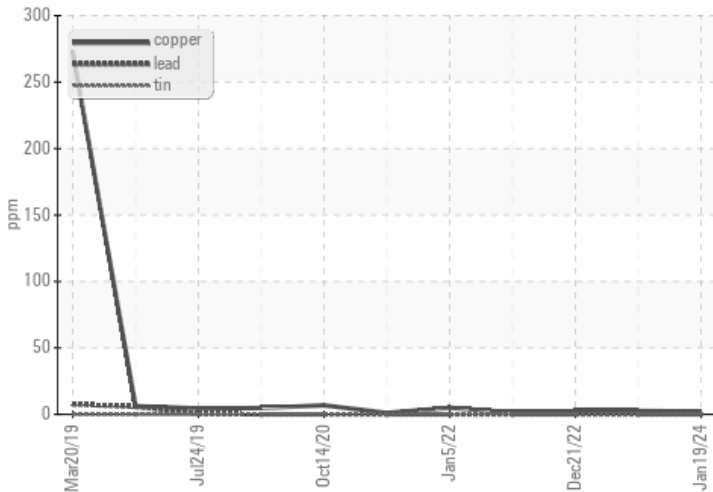


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

