

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-109299 - Transmission

Sample No: LH0272567

Oil Type: CHEVRON DELO LE 5W40



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



SAMPLE INFORMATION

Sample Number	LH0272567	LH0264383	LH0243148	LH0217663
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



OIL CONDITION

Visc @ 40°C	cSt	48.8	47.8	48.3	47.9
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	6	5	8	7
Sodium	ppm	4	2	3	6
Potassium	ppm	1	5	4	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 fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	17	13	17	11
Copper	ppm	6	8	12	13
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	1	2	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	13	25	6	4
Nickel	ppm	0	0	0	0
Titanium	ppm	74	51	88	73
Silver	ppm	0	0	0	<1
Manganese	ppm	2	2	2	3
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

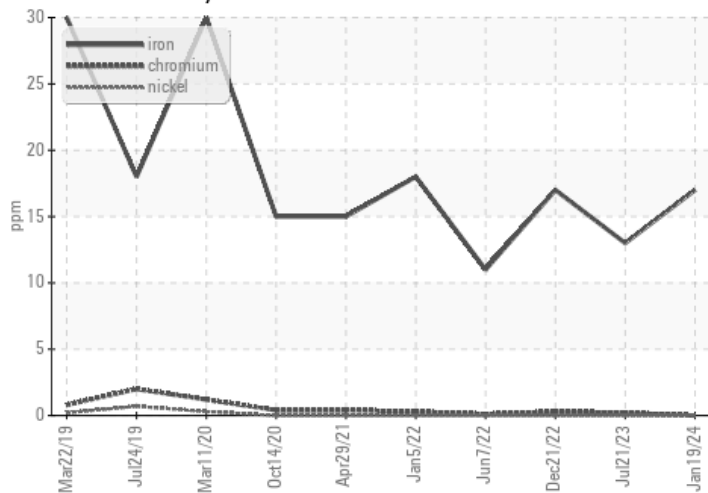
Calcium	ppm	1241	1253	1516	1572
Magnesium	ppm	687	732	659	696
Zinc	ppm	1096	1138	1188	1082
Phosphorus	ppm	977	1000	1060	1070
Barium	ppm	0	0	<1	0
Boron	ppm	137	115	169	223

Depot: ALTWAUUS
Unique No: 10846840
Signed: Sean Felton
Report Date: 26 Jan 2024

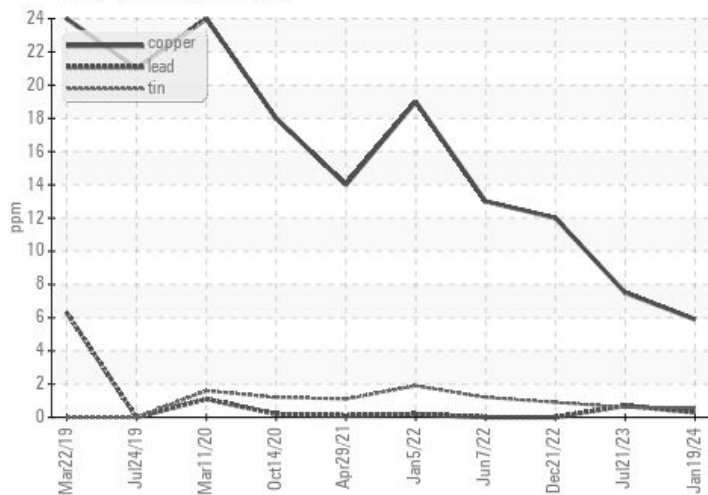


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

