

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 119411-1216 - Swing Drive

Sample No: LH0268842

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0268842	LH0264633	LH0253952	LH0172060
Sample Date	28 Jan 2024	18 Jul 2023	01 Mar 2023	23 Mar 2021
Machine Hours	5692	4944	4520	1989
Oil Hours	5692	1000	4520	401
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SIMS METAL MANAGEMENT
 3220 DEEPWATER TERMINAL RD
 RICHMOND, VA
 US 23234
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	184	221	232	300
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T: (703)392-0111
 F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	<1	<1	0
Sodium	ppm	<1	2	0	2
Potassium	ppm	0	2	<1	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	45	55	41	91
Copper	ppm	129	46	40	75
Lead	ppm	1	0	0	0
Tin	ppm	3	3	2	3
Aluminum	ppm	<1	<1	0	0
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	1	1	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

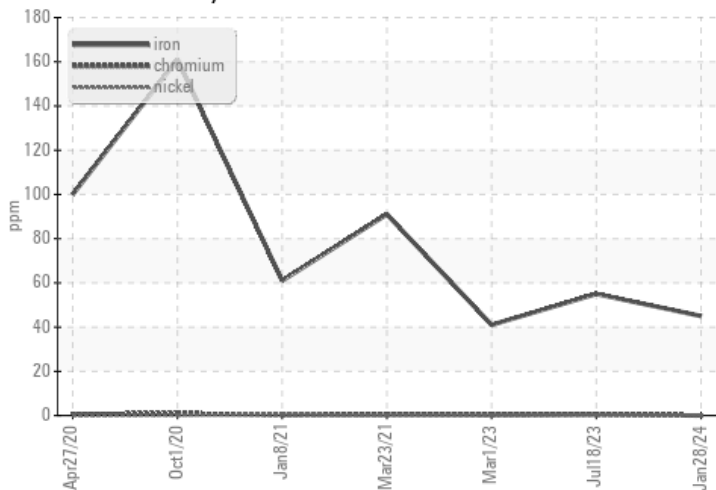
Calcium	ppm	533	22	38	9
Magnesium	ppm	4	11	20	<1
Zinc	ppm	147	6	22	0
Phosphorus	ppm	1957	1813	1355	1399
Barium	ppm	0	0	0	2
Boron	ppm	40	33	38	4

Depot: SIMRCLH
 Unique No: 10903855
 Signed: Wes Davis
 Report Date: 02 Mar 2024

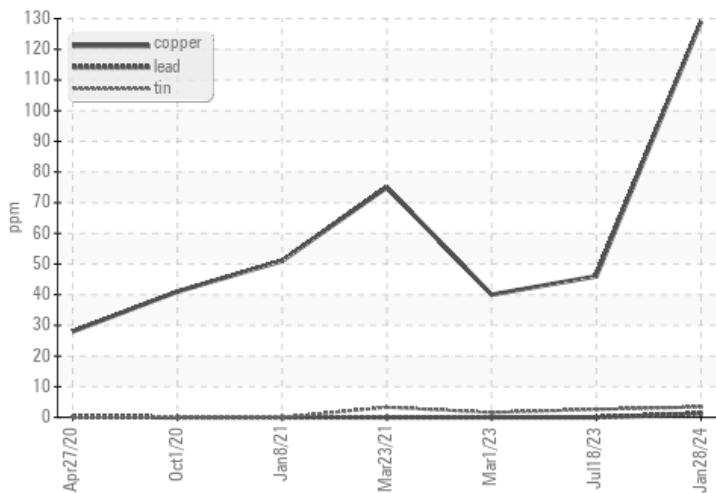


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

