

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-118289 - Swing Drive

Sample No: LH06135807

Oil Type: GEAR OIL SAE 80W90



KOVALCHICK CORP
1060 WAYNE AVENUE
INDIANA, PA
US 15701
Contact: Service Manager

T:
F:



Sample Information

Sample Number	LH06135807	LH05693566	LH05370573	---
Sample Date	31 Mar 2024	13 Nov 2022	10 Oct 2021	---
Machine Hours	5050	0	1635	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	N/A	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---



Oil Condition

Visc @ 40°C	cSt	160	148	166	---
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Contamination

Water	%	NEG	NEG	NEG	---
Silicon	ppm	9	7	17	---
Sodium	ppm	7	1	6	---
Potassium	ppm	3	0	1	---



Wear Metals

Iron	ppm	228	60	159	---
Copper	ppm	183	33	49	---
Lead	ppm	0	0	<1	---
Tin	ppm	10	1	2	---
Aluminum	ppm	<1	<1	5	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	3	<1	2	---
Vanadium	ppm	0	0	0	---



Additives

Calcium	ppm	29	29	29	---
Magnesium	ppm	<1	0	1	---
Zinc	ppm	47	23	20	---
Phosphorus	ppm	2045	672	2047	---
Barium	ppm	11	0	12	---
Boron	ppm	7	1	7	---

Diagnosis

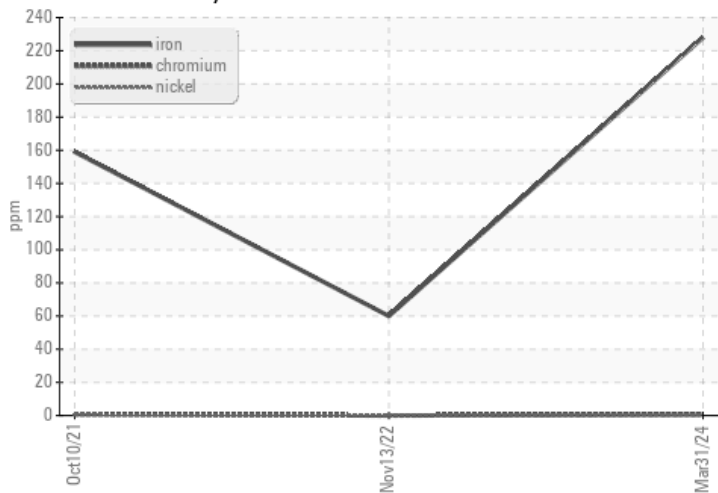
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: KOVIND
Unique No: 10955272
Signed: Wes Davis
Report Date: 02 Apr 2024

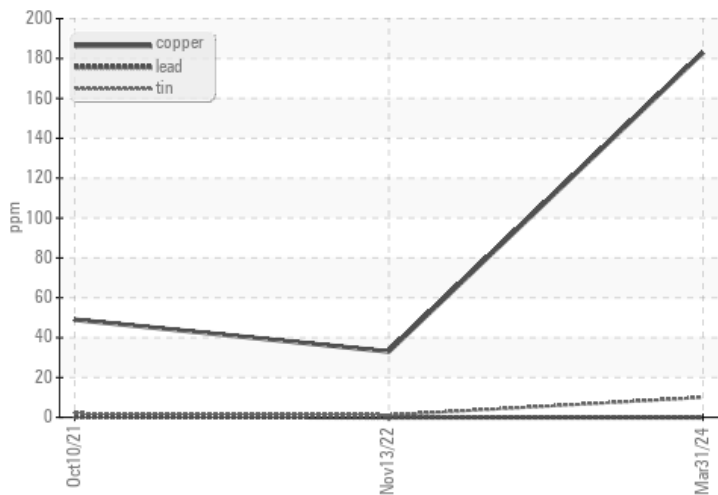


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

