

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-118289 - Splitter Box

Sample No: LH06135808

Oil Type: GEAR OIL SAE 80W90



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



Sample Information

Sample Number	LH06135808	LH05695874	LH05370569	---
Sample Date	31 Mar 2024	15 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	SEVERE	ABNORMAL	NORMAL	---



Oil Condition

Visc @ 40°C	cSt	39.1	148	198	---
-------------	-----	------	-----	-----	-----

T:
F:



Contamination

Water	%	NEG	NEG	NEG	---
Silicon	ppm	5	<1	<1	---
Sodium	ppm	49	1	4	---
Potassium	ppm	18	0	2	---

Diagnosis

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.



Wear Metals

Iron	ppm	66	55	22	---
Copper	ppm	206	30	2	---
Lead	ppm	<1	0	<1	---
Tin	ppm	2	1	<1	---
Aluminum	ppm	3	<1	4	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	14	<1	2	---
Vanadium	ppm	<1	0	0	---



Additives

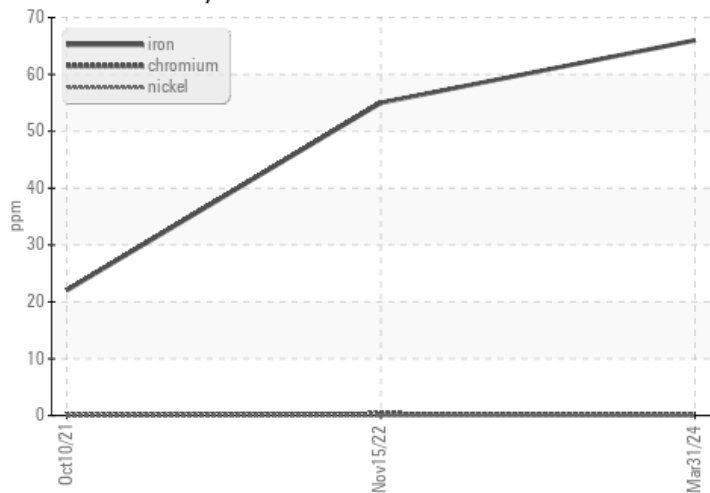
Calcium	ppm	3214	25	50	---
Magnesium	ppm	9	0	7	---
Zinc	ppm	1131	8	57	---
Phosphorus	ppm	1115	678	1513	---
Barium	ppm	1	0	2	---
Boron	ppm	3	4	4	---

Depot: KOVIND
Unique No: 10955273
Signed: Don Baldrige
Report Date: 04 Apr 2024

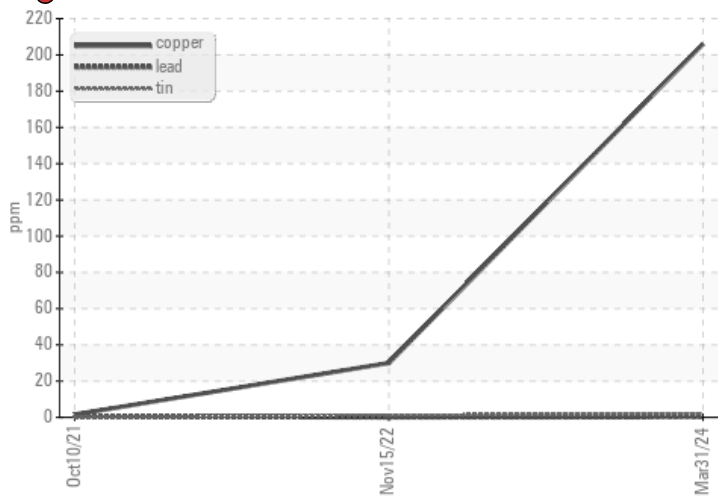


Graphs

Ferrous Alloys



● Non-ferrous Metals



● Viscosity @ 40°C

