

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40 121161 - Gearbox

Sample No: LH

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

Sample Number	LH	LH0186134	---	---
Sample Date	27 Mar 2024	18 Dec 2020	---	---
Machine Hours	14060	1105	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

LIEBHERR CANADA LTEE
 444 AVENUE DE LA FRICHE
 DOLBEAU-MISTASSINI, QC
 CA G8L 3M7
 Contact: Martin Gagnon
 martin.gagnon@liebherr.com
 T:
 F: (418)276-9844



Oil Condition

Visc @ 40°C	cSt	156	194	---	---
Acid Number (AN)	mg KOH/g	4.33	---	---	---



Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	3	2	---	---
Sodium	ppm	2	4	---	---
Potassium	ppm	<1	<1	---	---



Wear Metals

PQ		48	---	---	---
Iron	ppm	133	19	---	---
Copper	ppm	33	1	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	2	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	14	7	---	---
Magnesium	ppm	3	1	---	---
Zinc	ppm	20	40	---	---
Phosphorus	ppm	2147	1987	---	---
Barium	ppm	<1	<1	---	---
Boron	ppm	14	1	---	---

Diagnosis

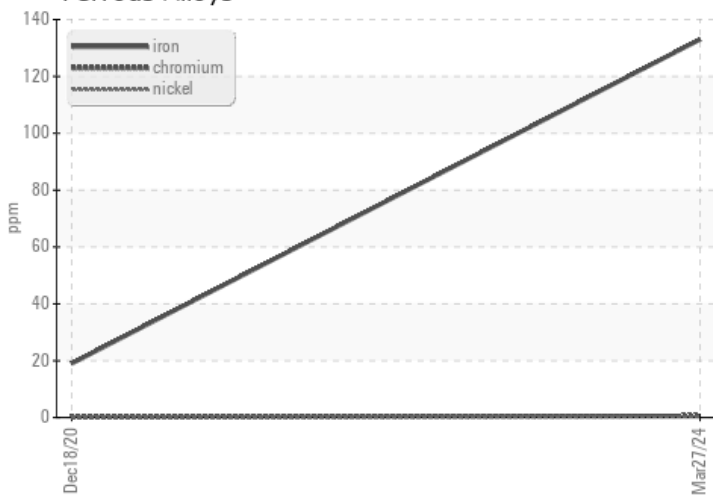
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: LBADOL
 Unique No: 5763516
 Signed: Wes Davis
 Report Date: 22 Apr 2024

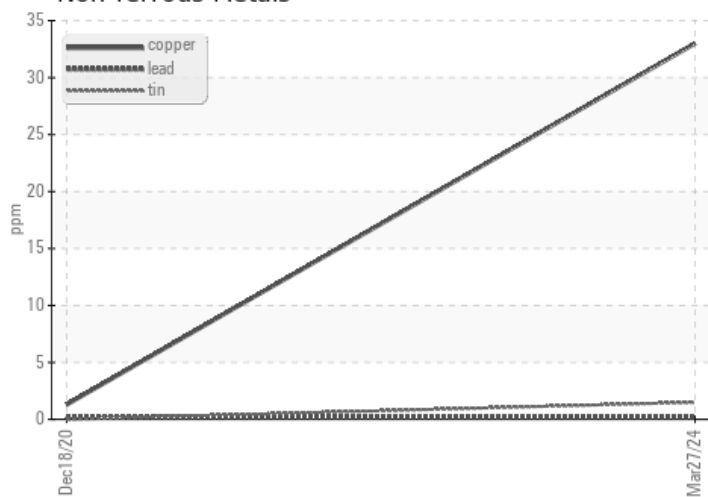


Graphs

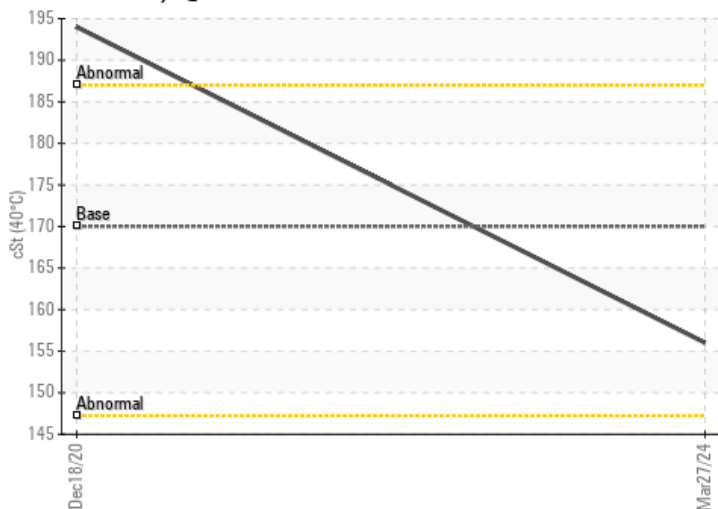
Ferrous Alloys



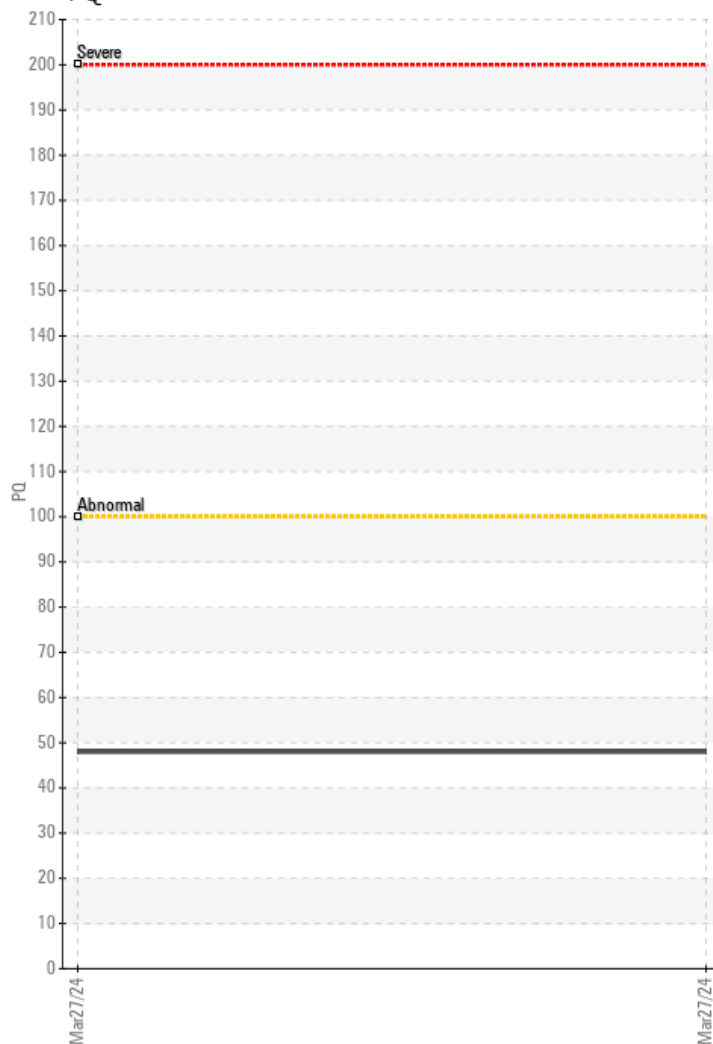
Non-ferrous Metals



Viscosity @ 40°C



PQ



Acid Number

