

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LV20FR-3111 (S/N 110792) - Gearbox

Sample No: LH0273766

Oil Type: LIEBHERR GEAR PG 220



Sample Information

Sample Number	LH0273766	---	---	---
Sample Date	23 May 2024	---	---	---
Machine Hours	4883	---	---	---
Oil Hours	358	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

PETERSON CONTRACTORS INC
 PO BOX A
 REINBECK, IA
 US 50669
 Contact: WADE VANHAVEN
 MBERWALD@PCIUS.COM
 T:
 F:



Oil Condition

Visc @ 40°C	cSt	● 232	---	---	---
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Contamination

Water	%	NEG	---	---	---
Silicon	ppm	● 10	---	---	---
Sodium	ppm	● 0	---	---	---
Potassium	ppm	● 3	---	---	---



Wear Metals

Iron	ppm	● 356	---	---	---
Copper	ppm	● 4	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● 4	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 4	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	● 1	---	---	---
Magnesium	ppm	● <1	---	---	---
Zinc	ppm	● 8	---	---	---
Phosphorus	ppm	● 503	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 27	---	---	---

Diagnosis

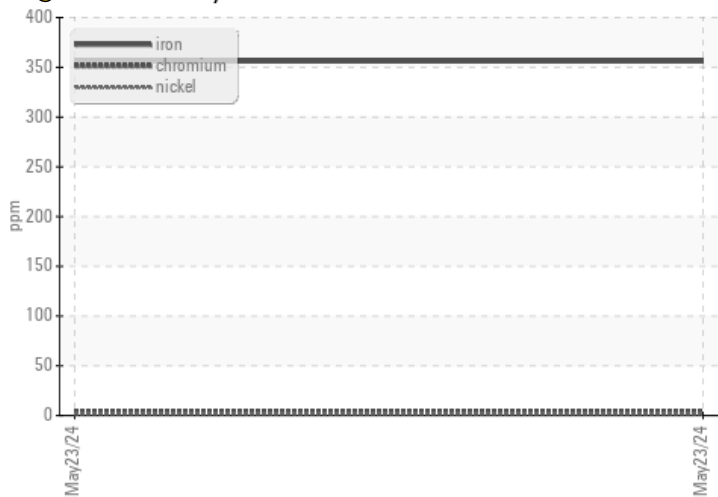
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: PETREILH
Unique No: 11060542
Signed: Don Baldrige
Report Date: 05 Jun 2024

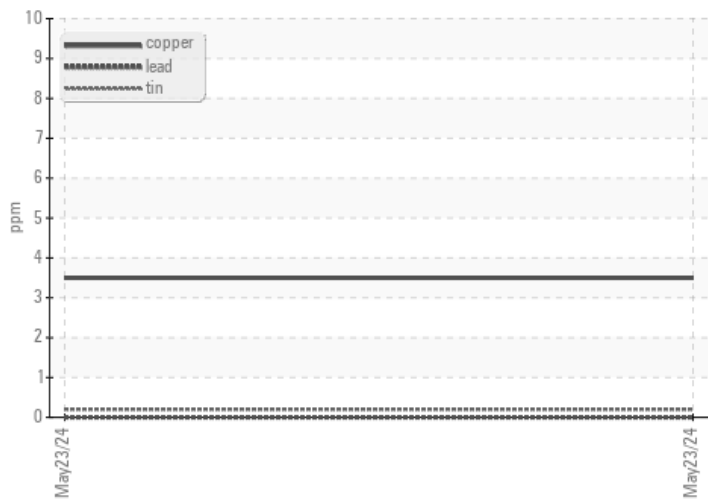


Graphs

● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

