

LIEBHERR

CONSTRUCTION EQUIPMENT



GRADALL XL4100II 140000450 - Center Differential

Sample No: LH0254428

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0254428	---	---	---
Sample Date	19 Jun 2023	---	---	---
Machine Hours	1700	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

FINKBINER EQUIPMENT CO.
 15 W 400 N FRONTAGE RD
 BURR RIDGE, IL
 US 60527
 Contact: TROY MILLER
 tmiller@finkbiner.com
 T: (630)654-3700
 F: (630)654-3792



OIL CONDITION

Visc @ 40°C	cSt	● 143	---	---	---
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CONTAMINATION

Silicon	ppm	● 18	---	---	---
Sodium	ppm	● 9	---	---	---
Potassium	ppm	● 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	● 135	---	---	---
Copper	ppm	● 19	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 1	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 18	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

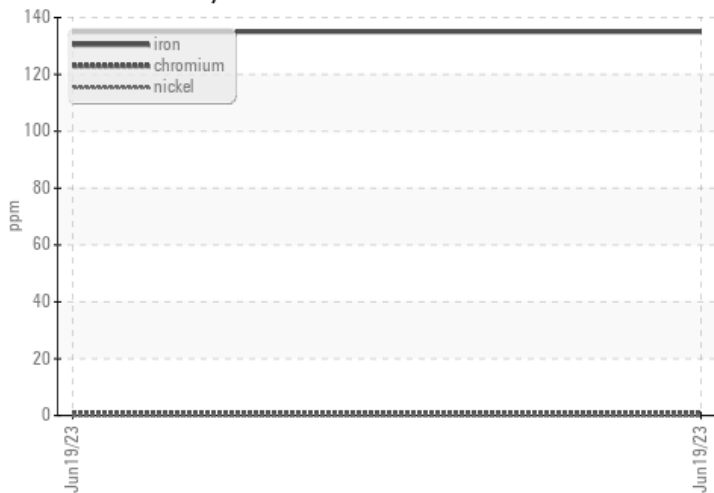
Calcium	ppm	● 16	---	---	---
Magnesium	ppm	● 6	---	---	---
Zinc	ppm	● 29	---	---	---
Phosphorus	ppm	● 318	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

Depot: LEC0033
Unique No: 10548851
Signed: Don Baldrige
Report Date: 11 Jul 2023

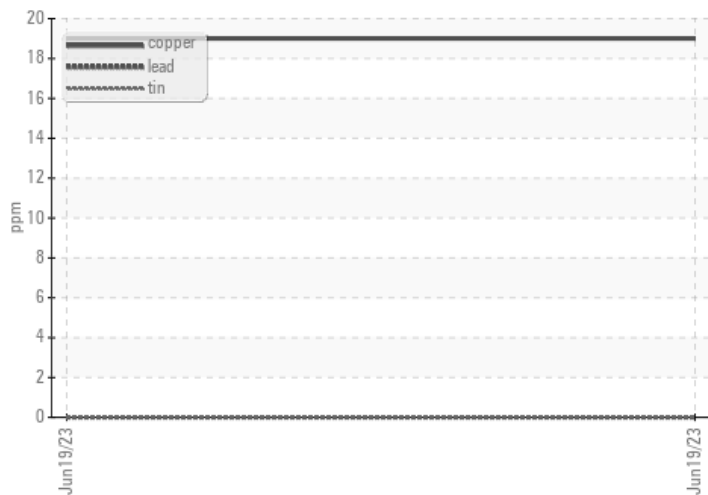


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

