

LIEBHERR

CONSTRUCTION EQUIPMENT



[[FH PACSHEM]] GRADALL XL4100II 140000450 - Diesel Engine

Sample No: LH0254427

Oil Type: DIESEL ENGINE OIL SAE 5W40



SAMPLE INFORMATION

Sample Number	LH0254427	---	---	---
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 @ 100°C	cSt	13.2	---	---	---
Base Number (BN)	mg KOH/g	6.7	---	---	---
Oxidation (PA)	%	76	---	---	---

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	0.2	---	---	---
Nitration (PA)	%	87	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	11	---	---	---
Sodium	ppm	4	---	---	---
Potassium	ppm	4	---	---	---



WEAR METALS

Iron	ppm	21	---	---	---
Copper	ppm	226	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	83	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	2193	---	---	---
Magnesium	ppm	118	---	---	---
Zinc	ppm	1261	---	---	---
Phosphorus	ppm	1022	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	39	---	---	---

Depot: LEC0033

Unique No: 10548599

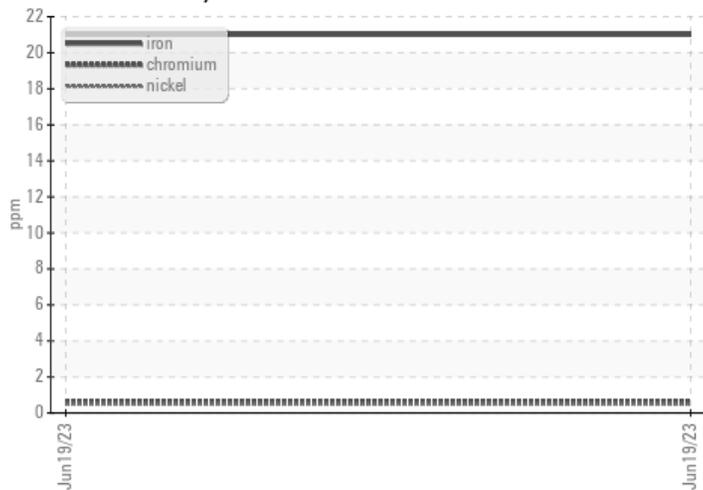
Signed: Wes Davis

Report Date: 10 Jul 2023

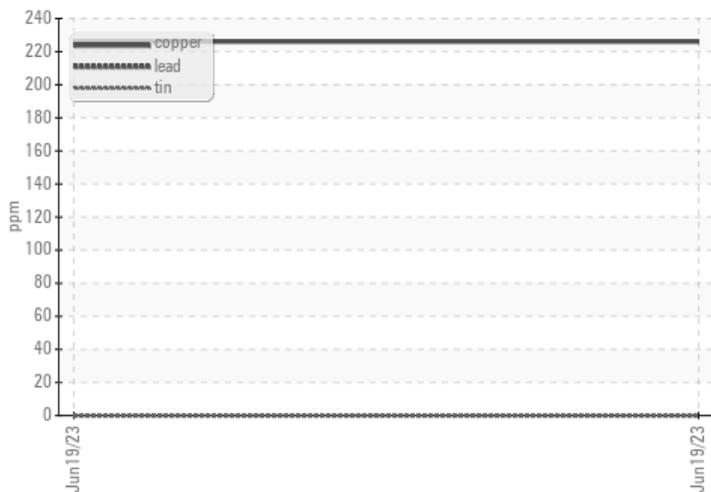


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

