

LIEBHERR

CONSTRUCTION EQUIPMENT



[[ARRP]] SAKAI SW770HF 10211 - Diesel Engine

Sample No: LH0258855
 Oil Type: DIESEL ENGINE OIL SAE 15W40



SAMPLE INFORMATION

Sample Number	LH0258855	---	---	---
Sample Date	19 Feb 2024	---	---	---
Machine Hours	747	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

FINKBINER EQUIPMENT CO.
 15 W 400 N FRONTAGE RD
 BURR RIDGE, IL
 US 60527
 Contact: TROY MILLER
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OIL CONDITION

Visc @ 100°C	cSt	12.3	---	---	---
Base Number (BN)	mg KOH/g	8.5	---	---	---
Oxidation (PA)	%	49	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Metal levels are typical for a new component breaking in. Fuel content negligible. 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

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	55	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	0.3	---	---	---
Silicon	ppm	10	---	---	---
Sodium	ppm	1	---	---	---
Potassium	ppm	<1	---	---	---



WEAR METALS

Iron	ppm	11	---	---	---
Copper	ppm	11	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	6	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	58	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

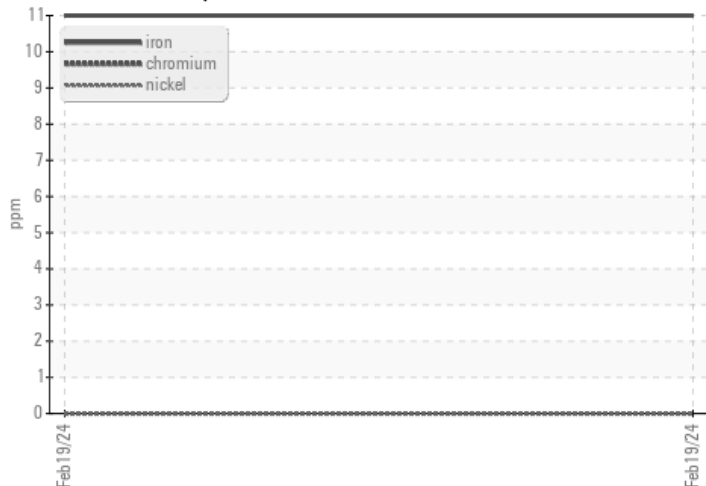
Calcium	ppm	2020	---	---	---
Magnesium	ppm	181	---	---	---
Zinc	ppm	1080	---	---	---
Phosphorus	ppm	927	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	153	---	---	---

Depot: LEC0033
 Unique No: 10926522
 Signed: Wes Davis
 Report Date: 15 Mar 2024

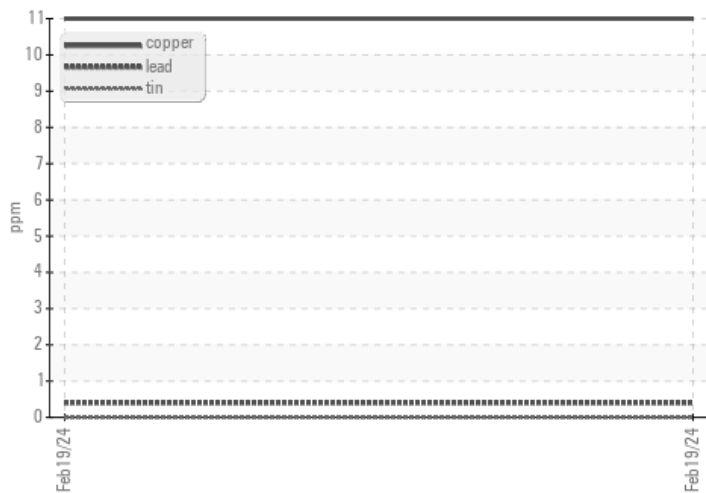


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

