LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH110CP 140448-1228 - Diesel Engine

Sample No: LH0259118

Oil Type: DIESEL ENGINE OIL 10W40

NUECES POWER EQUIPMENT
7667 N SAM HOUSTON PKWY EAST
HUMBLE, TX
US 77396
Contact: SARKES GONZALEZ
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T: (713)247-0066
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SAMPLE INFORMATION

Sample Number		**LH0259118**	---	---	---
Sample Date		**09 Feb 2024**	---	---	---
Machine Hours		**1063**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**N/A**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**13.0**	---	---	---
Base Number (BN)	mg KOH/g	**6.9**	---	---	---
Oxidation (PA)	%	**96**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	**0.1**	---	---	---
Nitration (PA)	%	**86**	---	---	---
Sulfation (PA)	%	**60**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**8**	---	---	---
Sodium	ppm	**3**	---	---	---
Potassium	ppm	**5**	---	---	---

WEAR METALS

Iron	ppm	**7**	---	---	---
Copper	ppm	**14**	---	---	---
Lead	ppm	**2**	---	---	---
Tin	ppm	**1**	---	---	---
Aluminum	ppm	**2**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**11**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**<1**	---	---	---
Silver	ppm	**<1**	---	---	---
Manganese	ppm	**1**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	**1428**	---	---	---
Magnesium	ppm	**840**	---	---	---
Zinc	ppm	**964**	---	---	---
Phosphorus	ppm	**797**	---	---	---
Barium	ppm	**2**	---	---	---
Boron	ppm	**89**	---	---	---

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.

Depot: NUEHUM
Unique No: 10927735
Signed: Wes Davis
Report Date: 19 Mar 2024

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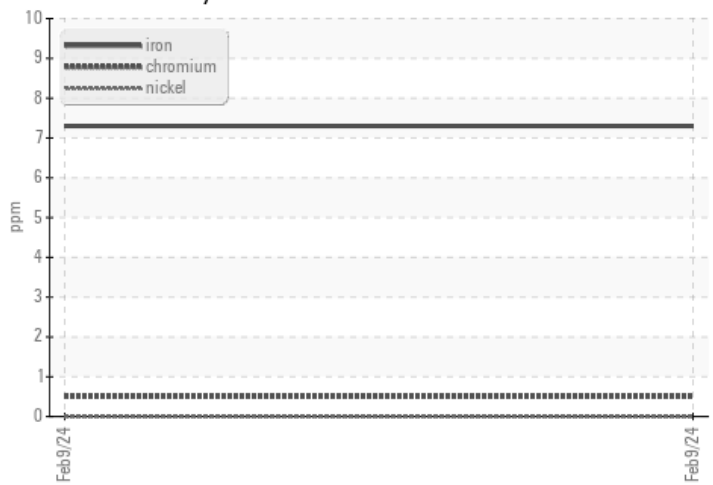
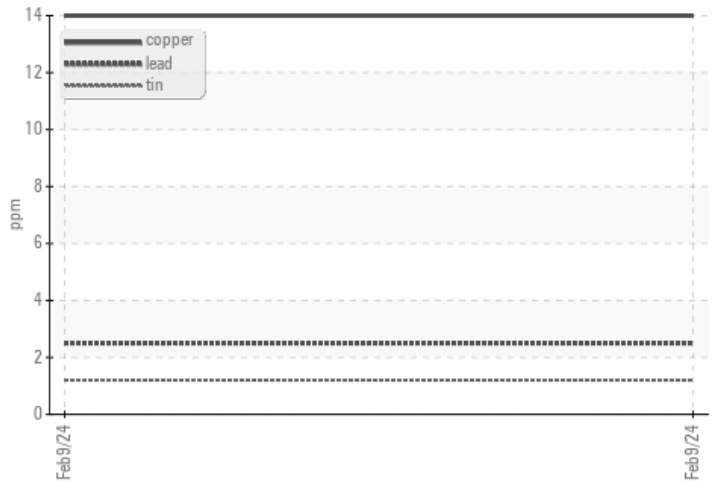
GRAPHS

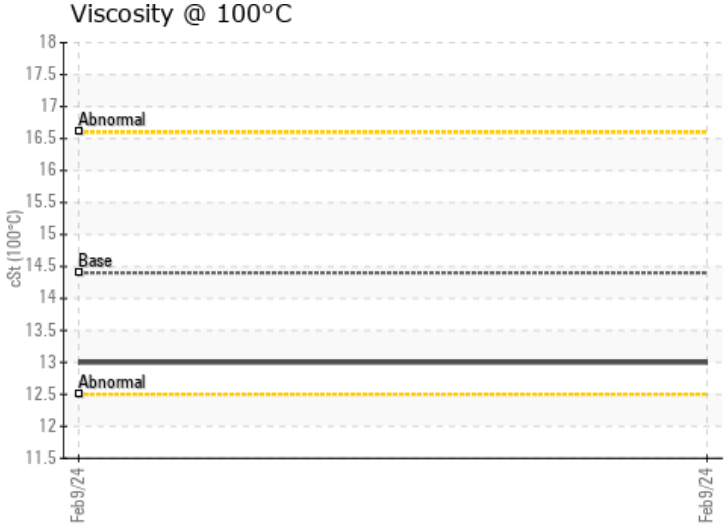
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number