

LIEBHERR

CONSTRUCTION EQUIPMENT



[[TERRAHA WK]] LIEBHERR R920 047896-1705 - Diesel Engine

Sample No: LH0244609

Oil Type: LIEBHERR MOTOROIL 5W30



SAMPLE INFORMATION

Sample Number	LH0244609	---	---	---
Sample Date	24 Jan 2024	---	---	---
Machine Hours	900	---	---	---
Oil Hours	900	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD
 RALEIGH, NC
 US 27603
 Contact: JOSEPH GERMERO
 joseph.germeroth@liebherr.com
 T:
 F: (919)329-0084



OIL CONDITION

Visc @ 100°C	cSt	12.2	---	---	---
Base Number (BN)	mg KOH/g	8.7	---	---	---
Oxidation (PA)	%	75	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a components first oil change. 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)	%	84	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	49	---	---	---
Sodium	ppm	6	---	---	---
Potassium	ppm	5	---	---	---



WEAR METALS

Iron	ppm	44	---	---	---
Copper	ppm	16	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	5	---	---	---
Chromium	ppm	2	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

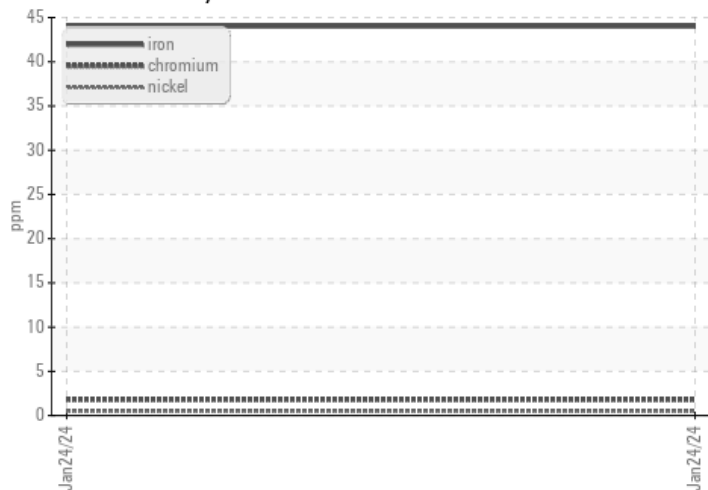
Calcium	ppm	2533	---	---	---
Magnesium	ppm	36	---	---	---
Zinc	ppm	914	---	---	---
Phosphorus	ppm	774	---	---	---
Barium	ppm	3	---	---	---
Boron	ppm	65	---	---	---

Depot: LIEBHERRNC
 Unique No: 10847993
 Signed: Wes Davis
 Report Date: 26 Jan 2024

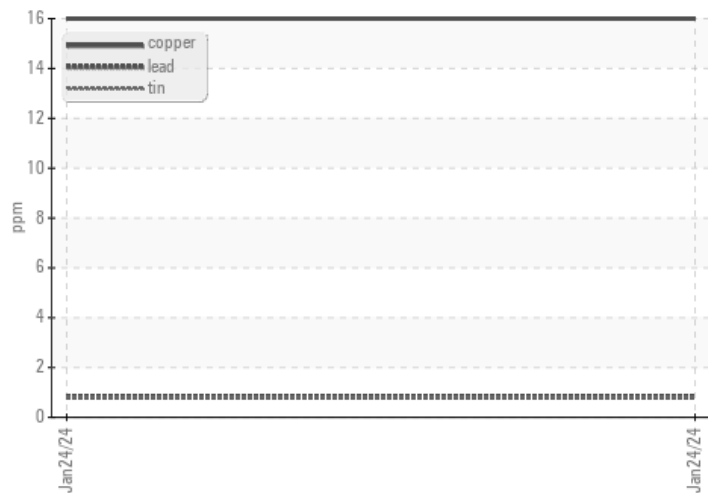


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

