

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R914 058057-1511 - Diesel Engine

Sample No: LH0271988

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH



Sample Information

Sample Number	LH0271988	---	---	---
Sample Date	30 May 2024	---	---	---
Machine Hours	19	---	---	---
Oil Hours	19	---	---	---
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	12.0	---	---	---
Base Number (BN)	mg KOH/g	8.1	---	---	---
Oxidation (PA)	%	55	---	---	---

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



Contamination

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	65	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	12	---	---	---
Sodium	ppm	4	---	---	---
Potassium	ppm	3	---	---	---



Wear Metals

Iron	ppm	16	---	---	---
Copper	ppm	8	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	<1	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

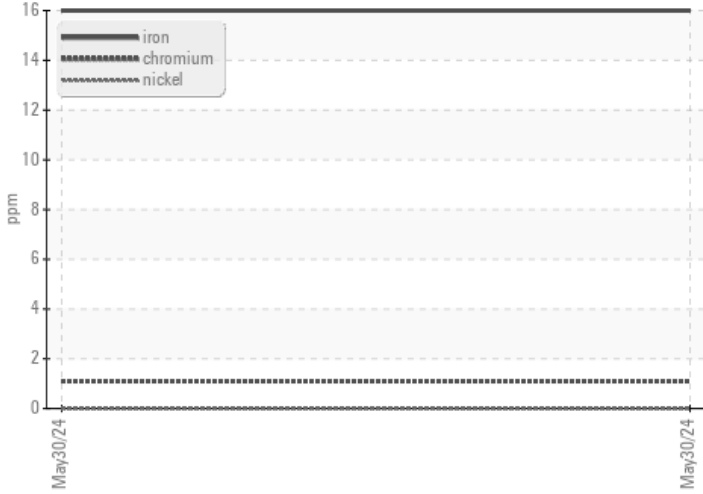
Calcium	ppm	1233	---	---	---
Magnesium	ppm	693	---	---	---
Zinc	ppm	857	---	---	---
Phosphorus	ppm	753	---	---	---
Barium	ppm	4	---	---	---
Boron	ppm	106	---	---	---

Depot: LIEBHERRNC
 Unique No: 11062002
 Signed: Sean Felton
 Report Date: 07 Jun 2024

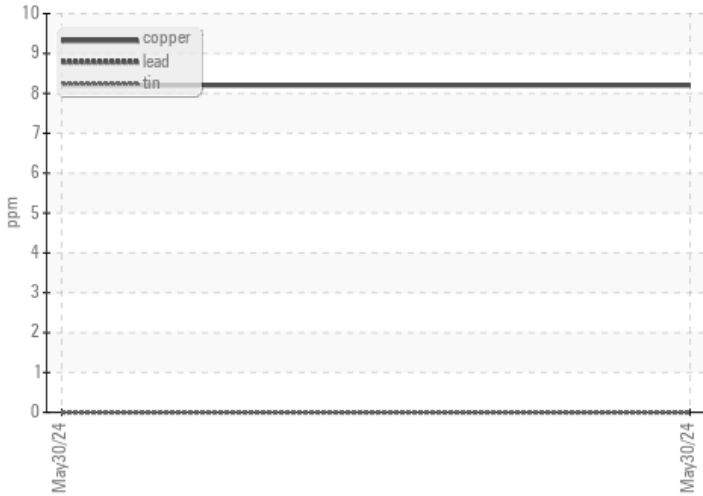


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

