

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LTM1090-4.2 089274 - PASS HUB - 2 Axle

Sample No: LH0258649
 Oil Type: LIEBHERR GEAR HYPOID 90 EP



Sample Information

Sample Number	LH0258649	---	---	---
Sample Date	28 May 2024	---	---	---
Machine Hours	20437	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR USA CO - MOBILE AND CRAWLER CRANES
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 NEWPORT NEWS, VA
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Oil Condition

Visc @ 40°C	cSt	● 196	---	---	---
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Contamination

Water	%	NEG	---	---	---
Silicon	ppm	● 3	---	---	---
Sodium	ppm	● 4	---	---	---
Potassium	ppm	● <1	---	---	---

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 condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	● 153	---	---	---
Copper	ppm	● 27	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● 2	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 3	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

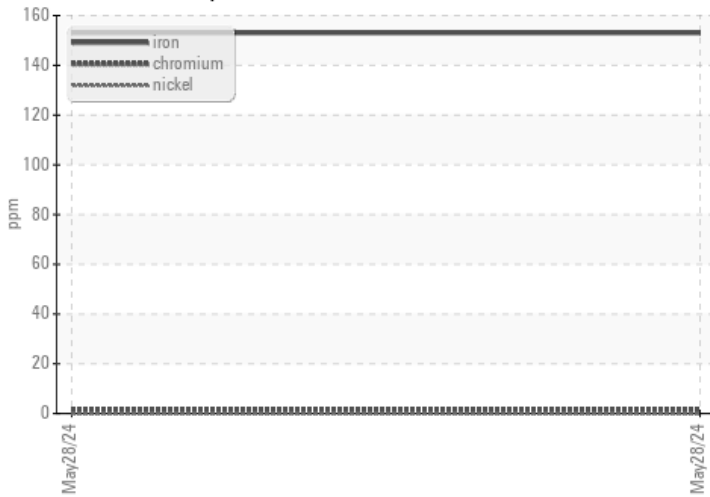
Calcium	ppm	● 4	---	---	---
Magnesium	ppm	0	---	---	---
Zinc	ppm	● 35	---	---	---
Phosphorus	ppm	● 1179	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

Depot: LIENEW
 Unique No: 11062981
 Signed: Wes Davis
 Report Date: 06 Jun 2024



Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

