

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 069044-1761 - Front Differential

Sample No: LH0267643

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0267643	LHMC155715	---	---
Sample Date	22 Nov 2023	27 Oct 2022	---	---
Machine Hours	1985	760	---	---
Oil Hours	0	760	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

MIDDLE RIVER MARINE
 1771 SOUTH TORRENCE AVE
 CHICAGO, IL
 US 60617
 Contact: Scott Molitor
 scottmolitor@gomiddleriver.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	● 140	● 195	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	● 15	● 29	---	---
Sodium	ppm	● 2	● 10	---	---
Potassium	ppm	● <1	● 2	---	---

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	● 174	● 253	---	---
Copper	ppm	● 71	● 167	---	---
Lead	ppm	● 0	● 0	---	---
Tin	ppm	● 5	● 10	---	---
Aluminum	ppm	● 1	● 4	---	---
Chromium	ppm	● 2	● 3	---	---
Molybdenum	ppm	● 0	● <1	---	---
Nickel	ppm	● <1	● 0	---	---
Titanium	ppm	● 0	● <1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 20	56	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

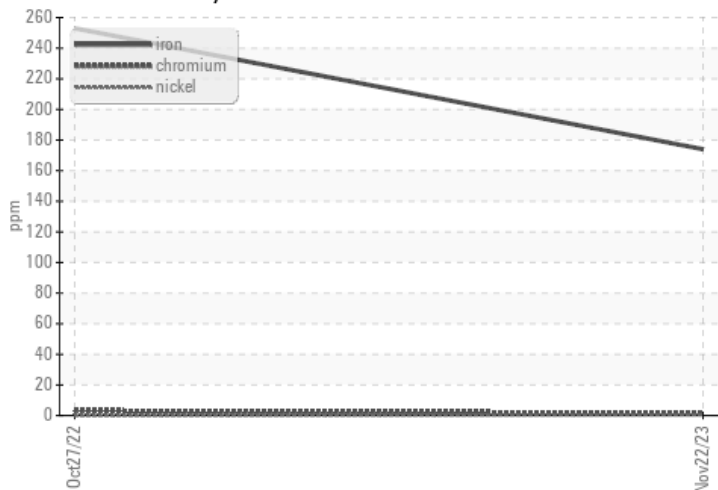
Calcium	ppm	● 13	● 14	---	---
Magnesium	ppm	● 0	● 2	---	---
Zinc	ppm	● 23	● 56	---	---
Phosphorus	ppm	● 1137	● 2370	---	---
Barium	ppm	● 0	● 2	---	---
Boron	ppm	● 7	● 2	---	---

Depot: MIDCHIIL
 Unique No: 10831885
 Signed: Don Baldrige
 Report Date: 16 Jan 2024

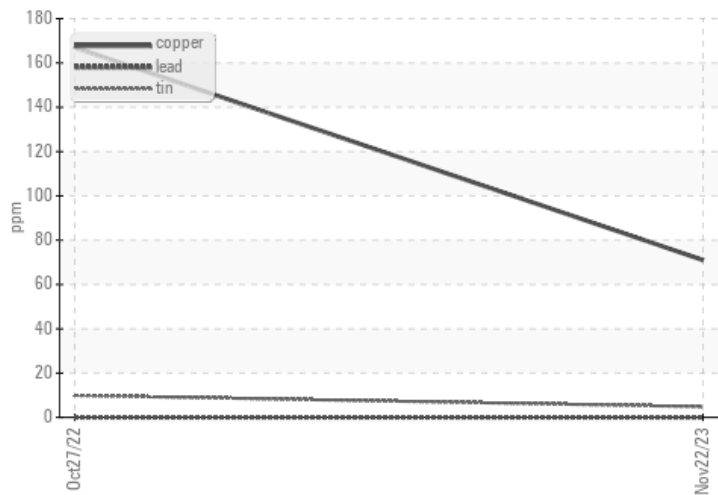


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

