

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LR14003 (S/N 139013) - Front Right Final Drive

Sample No: LH0272032

Oil Type: GEAR OIL SAE 90



Sample Information

Sample Number	LH0272032	---	---	---
Sample Date	12 Jun 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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 US 77028
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 T: (713)636-4000
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Oil Condition

Visc @ 40°C	cSt	● 193	---	---	---
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Contamination

Water	%	NEG	---	---	---
Silicon	ppm	● 2	---	---	---
Sodium	ppm	● 3	---	---	---
Potassium	ppm	● <1	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or gear wear is indicated. 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	● 563	---	---	---
Copper	ppm	● 116	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 4	---	---	---
Aluminum	ppm	● 0	---	---	---
Chromium	ppm	● 5	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 6	---	---	---
Vanadium	ppm	0	---	---	---



Additives

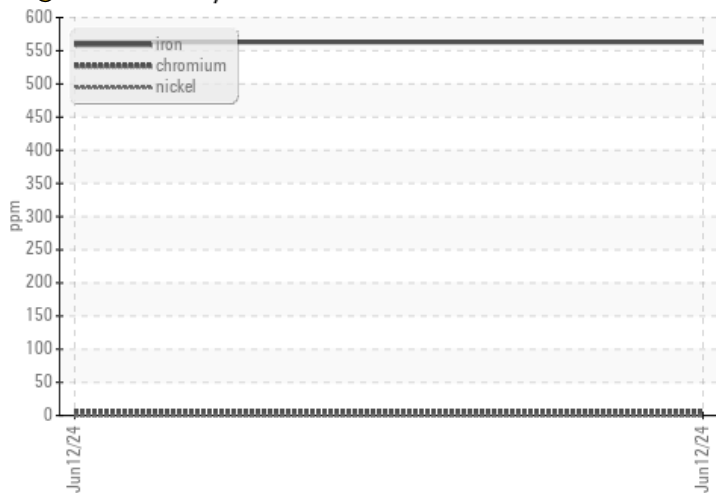
Calcium	ppm	● 8	---	---	---
Magnesium	ppm	● 0	---	---	---
Zinc	ppm	● 34	---	---	---
Phosphorus	ppm	● 1164	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● <1	---	---	---

Depot: LIEHOU
 Unique No: 11076868
 Signed: Don Baldrige
 Report Date: 17 Jun 2024

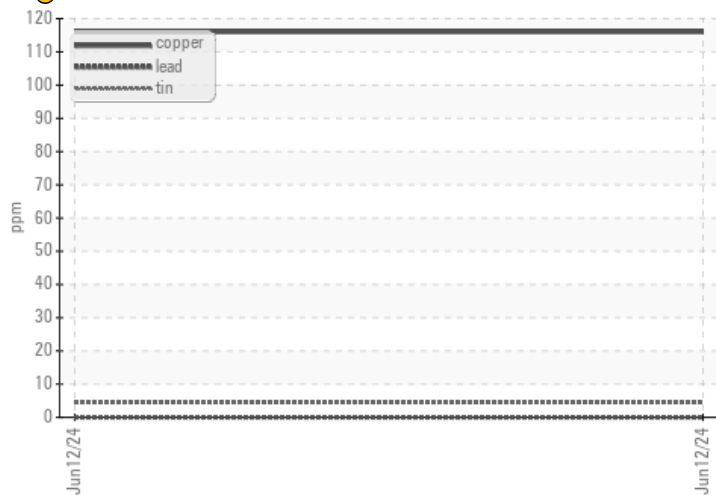


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

