

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 159572-1215 - Front Differential

Sample No: LH0268007

Oil Type: GEAR OIL SAE 80W90



HEAVY MACHINES INC
 825 31ST STREET NORTH
 BIRMINGHAM, AL
 US 35203
 Contact: CHRIS MCANNALLY
 cmcannally@heavymachines.com
 T:
 F:



Sample Information

Sample Number	LH0268007	---	---	---
Sample Date	18 May 2024	---	---	---
Machine Hours	194	---	---	---
Oil Hours	194	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---



Oil Condition

Visc @ 40°C	cSt	● 180	---	---	---
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Contamination

Water	%	NEG	---	---	---
Silicon	ppm	● 6	---	---	---
Sodium	ppm	● 1	---	---	---
Potassium	ppm	● 0	---	---	---



Wear Metals

Iron	ppm	● 13	---	---	---
Copper	ppm	● 22	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 0	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	● 3	---	---	---
Magnesium	ppm	● 0	---	---	---
Zinc	ppm	● 7	---	---	---
Phosphorus	ppm	● 1221	---	---	---
Barium	ppm	● 370	---	---	---
Boron	ppm	● 3	---	---	---

Diagnosis

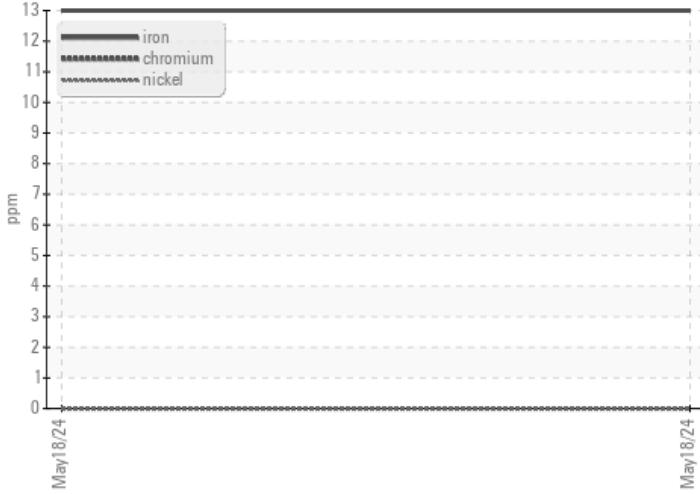
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: HEABIRLH
 Unique No: 11044844
 Signed: Wes Davis
 Report Date: 24 May 2024

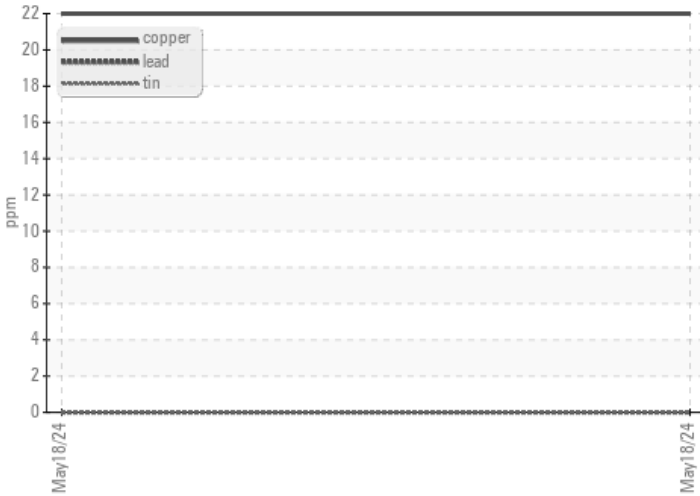


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

