

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR PR716LGP 019319-1423 - Left Final Drive

Sample No: LH0258393

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



SAMPLE INFORMATION

Sample Number	LH0258393	---	---	---
Sample Date	21 Feb 2024	---	---	---
Machine Hours	1477	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

HEAVY MACHINES INC
 7651 THEODORE DAWES RD
 THEODORE, AL
 US 36582
 Contact: DAVID MIANO
 dmiano@heavymachinesinc.com
 T: x:
 F: x:



OIL CONDITION

Visc @ 40°C	cSt	● 163	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 4	---	---	---
Sodium	ppm	● 3	---	---	---
Potassium	ppm	● 5	---	---	---

Diagnosis
 The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other 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	● 105	---	---	---
Copper	ppm	● 167	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 3	---	---	---
Aluminum	ppm	● 3	---	---	---
Chromium	ppm	● 1	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

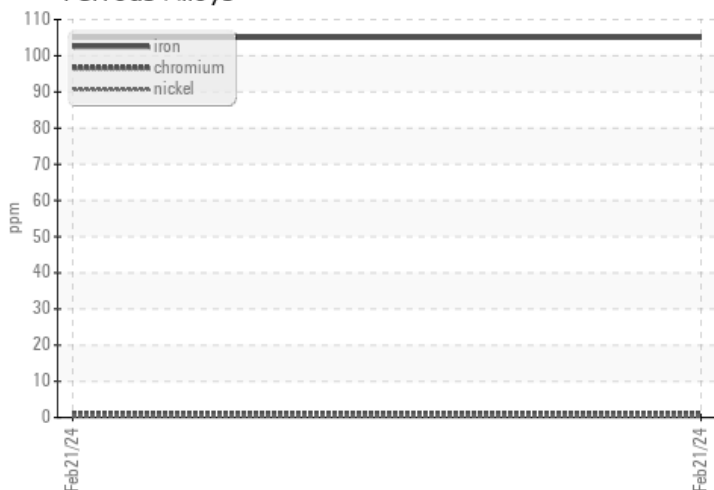
Calcium	ppm	● 35	---	---	---
Magnesium	ppm	● 3	---	---	---
Zinc	ppm	● 59	---	---	---
Phosphorus	ppm	● 1261	---	---	---
Barium	ppm	● 54	---	---	---
Boron	ppm	● 13	---	---	---

Depot: HEATHE
Unique No: 10913218
Signed: Jonathan Hester
Report Date: 08 Mar 2024

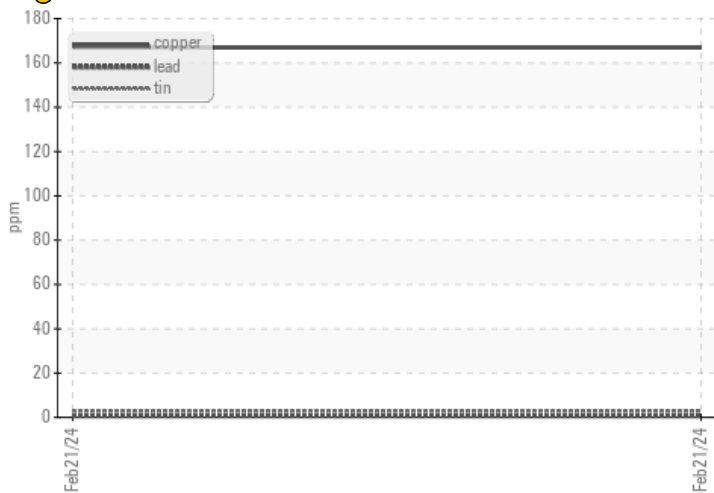


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

