

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR PR776 021879-1860 - Splitter Box

Sample No: LH0272671

Oil Type: CHEVRON DELO GEAR ESI OIL 85W140



LIEBHERR MINING EQUIPMENT CO
 5800 S DOUGLAS HWY
 GILLETTE, WY
 US 82718
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 T:
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Sample Information

Sample Number	LH0272671	LH0174051	---	---
Sample Date	27 Jun 2024	10 Oct 2023	---	---
Machine Hours	4795	2436	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	N/A	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



Oil Condition

Visc @ 40°C	cSt	● 221	● 142	---	---
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Contamination

Water	%	NEG	● 0.581	---	---
Silicon	ppm	● 9	● 11	---	---
Sodium	ppm	● 4	● 27	---	---
Potassium	ppm	● 3	● 14	---	---



Wear Metals

Iron	ppm	● 56	● 102	---	---
Copper	ppm	● 30	● 12	---	---
Lead	ppm	● <1	● <1	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 3	● 2	---	---
Chromium	ppm	● <1	● 1	---	---
Molybdenum	ppm	● 0	5	---	---
Nickel	ppm	● 0	● <1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● <1	1	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	● 350	40	---	---
Magnesium	ppm	● 48	6	---	---
Zinc	ppm	● 220	111	---	---
Phosphorus	ppm	● 1071	918	---	---
Barium	ppm	● 0	10	---	---
Boron	ppm	● 12	132	---	---

Diagnosis

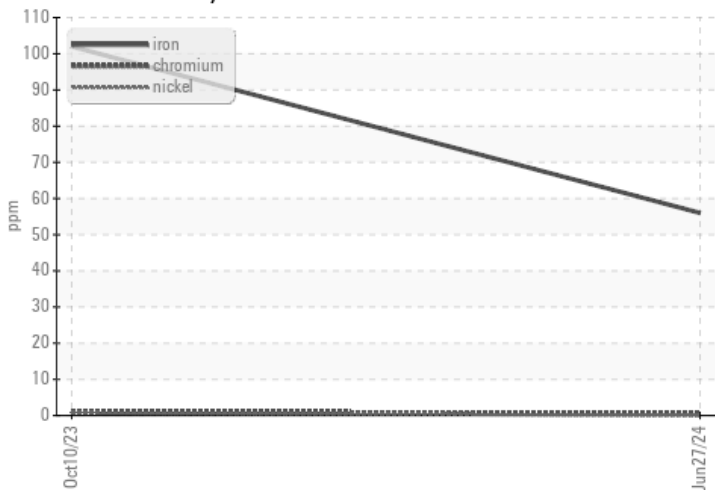
No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEGIL
 Unique No: 11114448
 Signed: Sean Felton
 Report Date: 10 Jul 2024

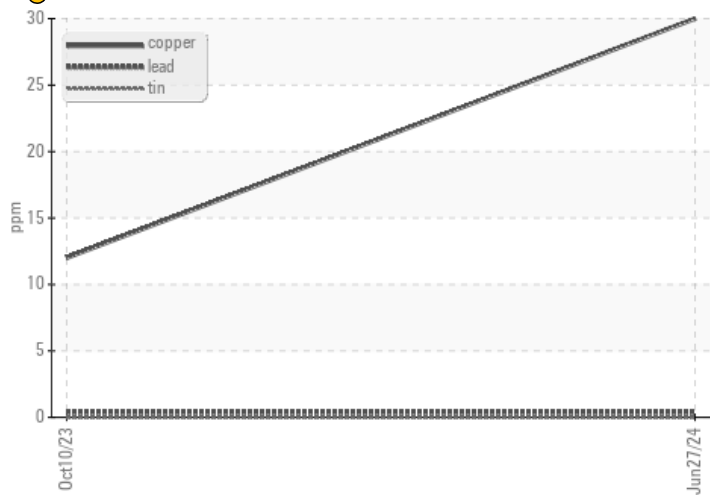


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

