

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-115017 - Pump Drive

Sample No: LH0229293

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



ALTER RECYCLING
 2175 BADGERLAND DR
 GREEN BAY, WI
 US 54303
 Contact: LORI GRAVES
 lori.graves@altertrading.com
 T:
 F:



SAMPLE INFORMATION

Sample Number	LH0229293	LH0243375	LH0235803	---
Sample Date	09 Aug 2023	03 Apr 2023	26 Jul 2022	---
Machine Hours	7823	7172	0	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	121	131	126	---
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CONTAMINATION

Silicon	ppm	1	3	<1	---
Sodium	ppm	0	0	0	---
Potassium	ppm	1	<1	2	---



WEAR METALS

Iron	ppm	6	14	25	---
Copper	ppm	<1	1	<1	---
Lead	ppm	0	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	0	0	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	<1	<1	1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	38	41	135	---
Magnesium	ppm	10	10	17	---
Zinc	ppm	27	15	80	---
Phosphorus	ppm	727	798	1000	---
Barium	ppm	0	0	0	---
Boron	ppm	5	8	27	---

Diagnosis

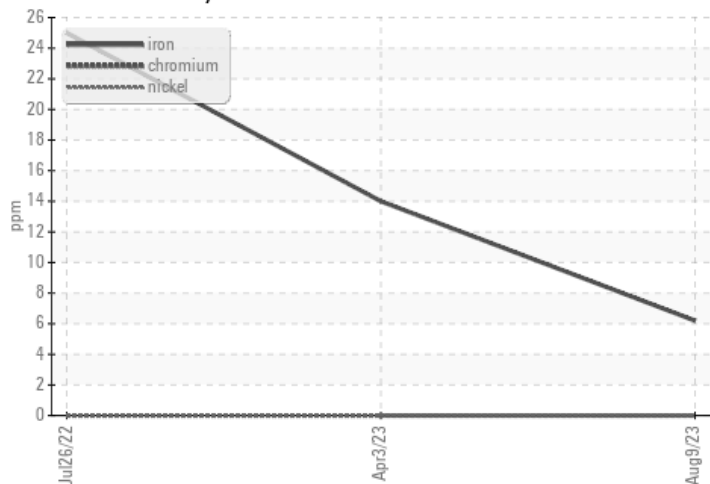
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: ALTGRE
 Unique No: 10604512
 Signed: Sean Felton
 Report Date: 16 Aug 2023

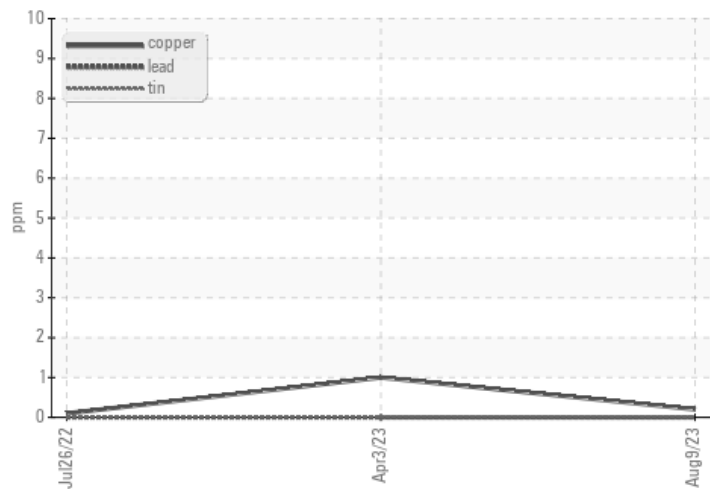


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

