

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-108671 - Front Differential

Sample No: LH0263996

Oil Type: GEAR OIL LS 80W90



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SAMPLE INFORMATION

Sample Number	LH0263996	LH0243414	LH0254782	LH0203907
Sample Date	14 Dec 2023	05 Sep 2023	12 Apr 2023	17 Jun 2022
Machine Hours	19125	17864	16979	14203
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	121	126	138	179
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● <1	● <1	● <1	● <1
Sodium	ppm	● <1	● <1	● <1	● <1
Potassium	ppm	● 0	● 0	● 0	● 2



WEAR METALS

Iron	ppm	● 0	● 2	● 2	● 2
Copper	ppm	● <1	● <1	● 1	● 1
Lead	ppm	● 0	● 0	● 0	● <1
Tin	ppm	● 0	● 0	● 0	● <1
Aluminum	ppm	● 0	● 0	● 0	● <1
Chromium	ppm	● 0	● 0	● 0	● 0
Molybdenum	ppm	● 0	● 0	● <1	● 2
Nickel	ppm	● 0	● 0	● 0	● <1
Titanium	ppm	<1	1	0	0
Silver	ppm	● 0	● 0	● 0	● <1
Manganese	ppm	● <1	● 0	● <1	● <1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	● 43	● 46	● 46	● 182
Magnesium	ppm	● 13	● 18	● 7	● 19
Zinc	ppm	● 22	● 22	● 20	● 98
Phosphorus	ppm	● 843	● 619	● 702	● 873
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	<1	● 7	● 8	● 32

Diagnosis

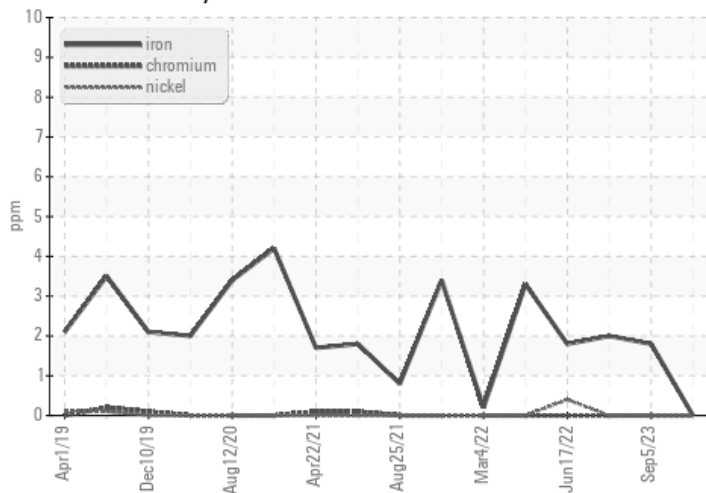
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10806318
 Signed: Don Baldrige
 Report Date: 28 Dec 2023

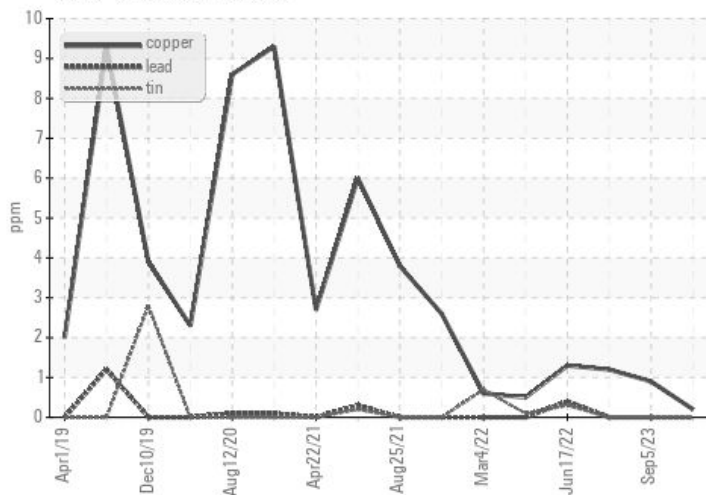


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

