

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 121854-1253 - Front Differential

Sample No: LH0272751

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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SAMPLE INFORMATION

Sample Number	LH0272751	LH0264398	LH0220800	LH0220629
Sample Date	02 Jan 2024	04 Aug 2023	05 Dec 2022	03 Aug 2022
Machine Hours	6976	6007	3974	3014
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	132	141	131
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CONTAMINATION

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



WEAR METALS

Iron	ppm	9	22	61	76
Copper	ppm	1	1	<1	32
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	2
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	1	<1	2	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	34	25	28	154
Magnesium	ppm	3	3	4	16
Zinc	ppm	11	22	20	76
Phosphorus	ppm	795	814	652	910
Barium	ppm	0	0	0	0
Boron	ppm	<1	5	8	32

Diagnosis

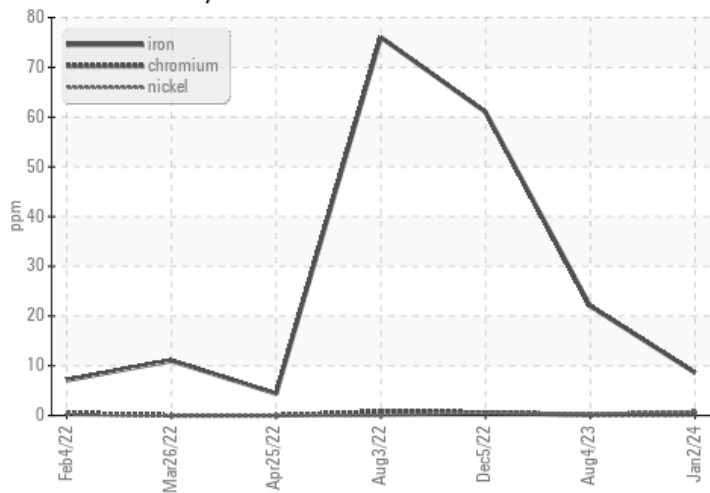
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10821034
 Signed: Sean Felton
 Report Date: 10 Jan 2024

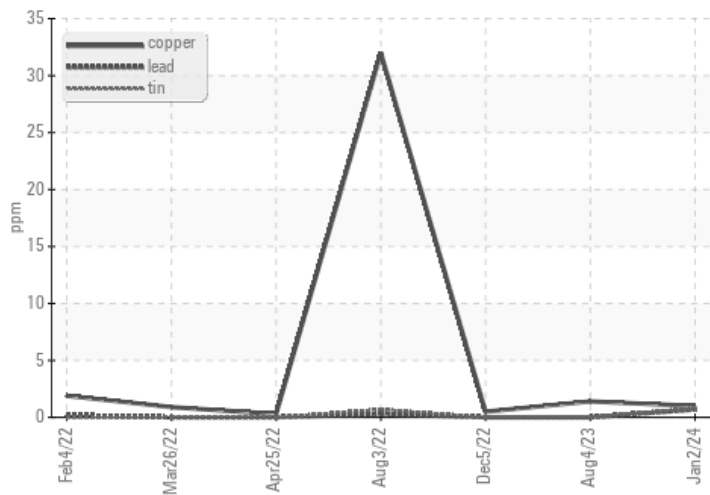


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

