

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 121854-1253 - Front Left Wheel Hub

Sample No: LH0272745

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



SAMPLE INFORMATION

Sample Number	LH0272745	LH0264395	LH0220806	LH0220626
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

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OIL CONDITION

Visc @ 40°C	cSt	122	132	138	120
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	3	1	<1
Sodium	ppm	<1	8	3	4
Potassium	ppm	2	4	<1	0

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.



WEAR METALS

Iron	ppm	55	104	70	28
Copper	ppm	2	5	2	4
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	1	2	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	1	<1	<1	1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	1	1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

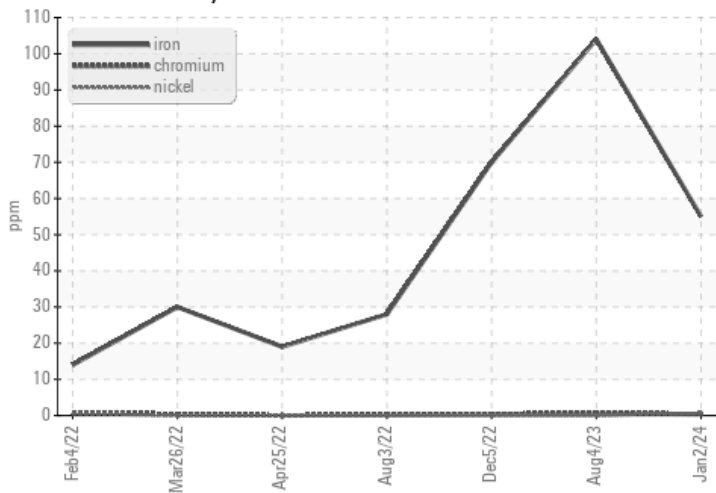
Calcium	ppm	40	66	54	80
Magnesium	ppm	5	10	8	13
Zinc	ppm	0	7	10	23
Phosphorus	ppm	786	1047	631	637
Barium	ppm	0	0	0	0
Boron	ppm	2	8	9	8

Depot: LEC0008
 Unique No: 10821036
 Signed: Sean Felton
 Report Date: 10 Jan 2024

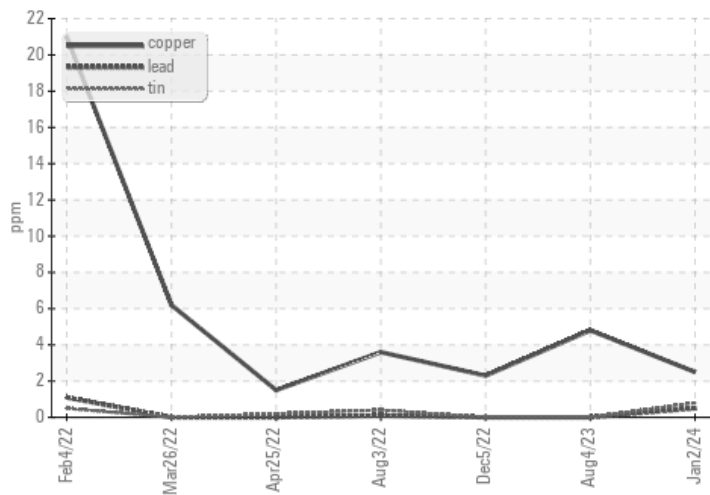


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

