

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 107076-1216 - Front Left Wheel Hub

Sample No: LH0254693

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0254693	LH0245021	LH0236225	LH0207873
Sample Date	08 Jun 2023	10 Mar 2023	17 Oct 2022	20 Apr 2022
Machine Hours	8928	9953	9029	8173
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	137	152	182	194



CONTAMINATION

Element	ppm	2	6	5	8
Silicon	ppm	2	6	5	8
Sodium	ppm	2	3	6	6
Potassium	ppm	1	<1	<1	1



WEAR METALS

Element	ppm	15	28	31	44
Iron	ppm	15	28	31	44
Copper	ppm	1	2	4	3
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	<1	<1	<1	1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	2	<1	<1	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Element	ppm	54	44	35	8
Calcium	ppm	54	44	35	8
Magnesium	ppm	12	2	<1	2
Zinc	ppm	14	16	23	11
Phosphorus	ppm	1259	1566	2238	2346
Barium	ppm	0	0	0	0
Boron	ppm	51	83	14	6

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: 10535769

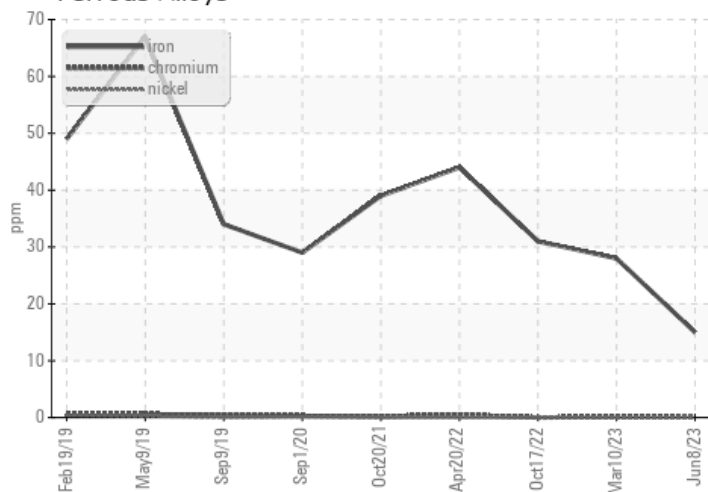
Signed: Don Baldrige

Report Date: 30 Jun 2023

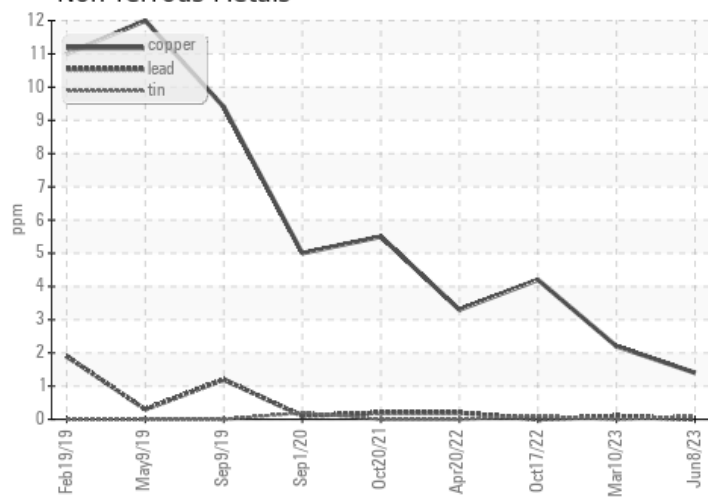


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

