

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L538 1559-58274 - Rear Left Wheel Hub

Sample No: LH0253894

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0253894	LH0236497	LH0220654	LH05490325
Sample Date	02 Aug 2023	15 Mar 2023	01 Aug 2022	10 Mar 2022
Machine Hours	5816	5998	4096	3066
Oil Hours	0	1000	1000	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

REPUBLIC SERVICES

2495 117TH STREET
INVER GROVE HEIGHTS, MN
US 55077

Contact: JOHN SCHAFFER
jschaffer@republicservices.com

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OIL CONDITION

Visc @ 40°C	cSt	147	257	152	160
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CONTAMINATION

Silicon	ppm	1	6	<1	1
Sodium	ppm	0	<1	2	0
Potassium	ppm	<1	1	0	0



WEAR METALS

Iron	ppm	38	80	23	56
Copper	ppm	<1	<1	<1	0
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	1	<1	<1
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	2	<1	2	1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	2	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	26	28	26	26
Magnesium	ppm	6	<1	4	<1
Zinc	ppm	22	21	18	15
Phosphorus	ppm	977	1584	1120	1353
Barium	ppm	1	0	0	0
Boron	ppm	11	101	16	32

Diagnosis

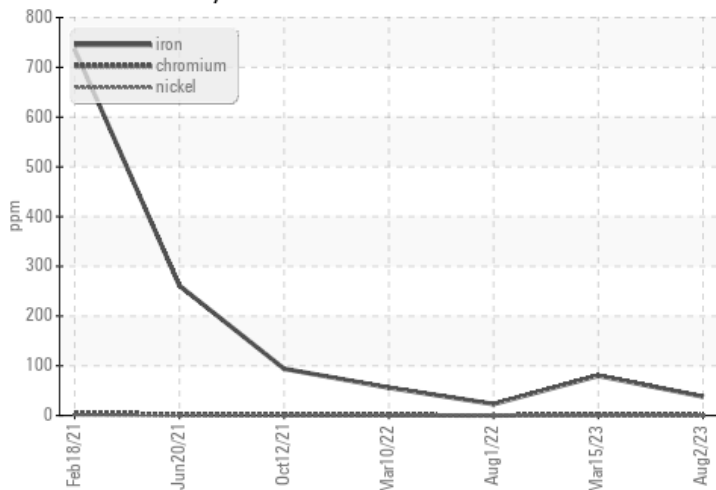
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: REPINV
Unique No: 10605585
Signed: Jonathan Hester
Report Date: 17 Aug 2023

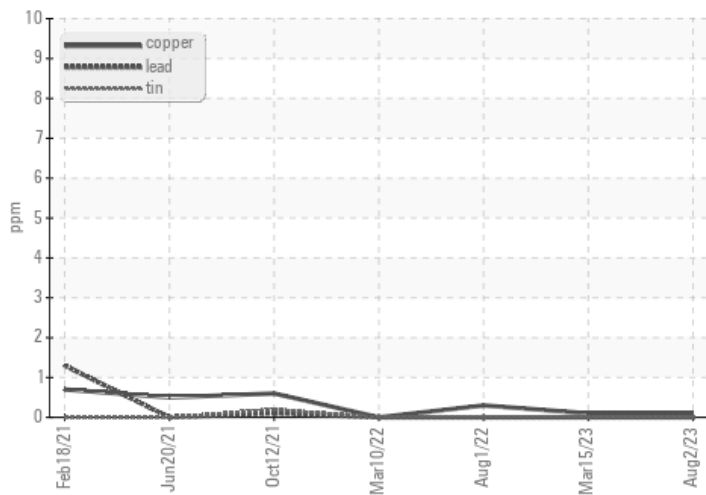


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

