

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A924C064060-1049 - Rear Left Wheel Hub

Sample No: LH0229950

Oil Type: REPUBLIC CRANE GEAR OIL 90LS PLUS



SAMPLE INFORMATION

Sample Number	LH0229950	LHMC158224	LH0157723	LHMC142578
Sample Date	09 Jan 2024	01 Sep 2022	26 May 2021	07 Oct 2020
Machine Hours	23880	20945	18120	16690
Oil Hours	0	0	1125	1350
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MIDWEST METALS CORP
 40 WINDHURST WAY
 SHELBYVILLE, KY
 US 40065
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OIL CONDITION

Visc @ 40°C	cSt	181	192	194	191
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	1	<1	2
Sodium	ppm	<1	14	4	3
Potassium	ppm	0	0	0	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	3	13	7	5
Copper	ppm	2	2	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	<1	0	0
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

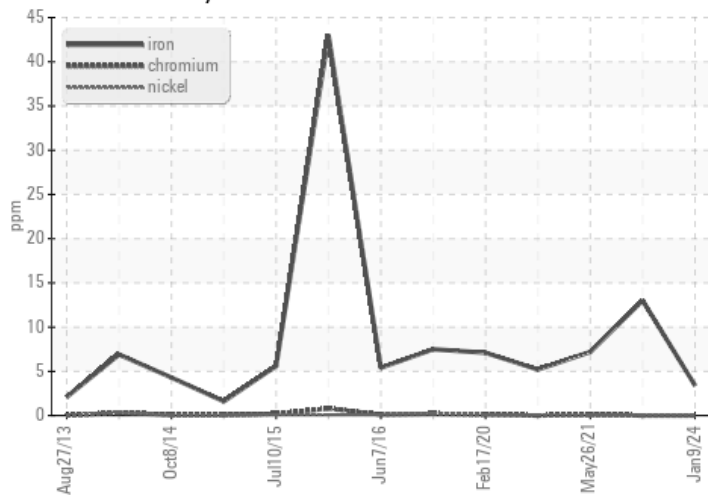
Calcium	ppm	30	47	8	21
Magnesium	ppm	<1	3	<1	<1
Zinc	ppm	18	22	3	6
Phosphorus	ppm	2231	2313	2320	2196
Barium	ppm	0	<1	0	0
Boron	ppm	0	<1	19	3

Depot: MIDSHELH
 Unique No: 10833633
 Signed: Wes Davis
 Report Date: 18 Jan 2024

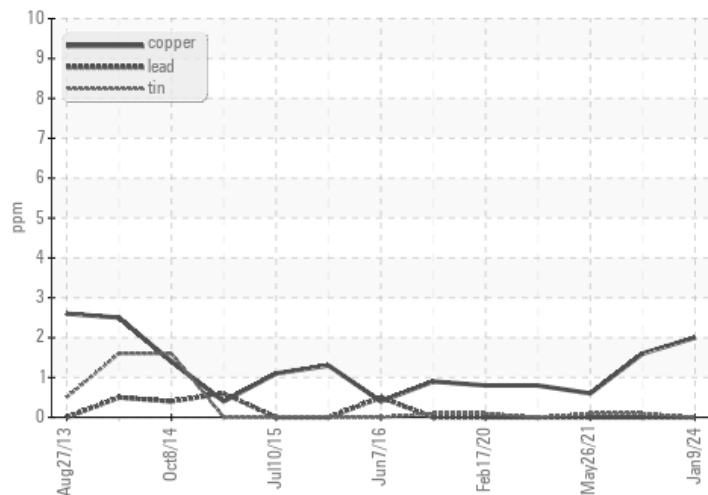


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

