

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A924C064060-1049 - Splitter Box

Sample No: LH0229947

Oil Type: REPUBLIC CRANE GEAR OIL 90LS PLUS



SAMPLE INFORMATION

Sample Number	LH0229947	LH0157726	LHMC142184	LHMC144405
Sample Date	09 Jan 2024	26 May 2021	17 Feb 2020	08 Aug 2019
Machine Hours	23880	18120	15294	14095
Oil Hours	0	1125	0	1550
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MIDWEST METALS CORP
 40 WINDHURST WAY
 SHELBYVILLE, KY
 US 40065
 Contact: JIMMY RENFROE
 jimmyr@mwmcorp.com
 T: (502)633-4211
 F: (502)633-5212



OIL CONDITION

Visc @ 40°C	cSt	177	192	183	176
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CONTAMINATION

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

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	124	57	21	23
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	<1	<1	<1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	2	3
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	0	12	7	25
Magnesium	ppm	<1	4	0	7
Zinc	ppm	10	6	8	18
Phosphorus	ppm	2204	2295	2056	1159
Barium	ppm	0	0	0	5
Boron	ppm	3	23	<1	4

Depot: MIDSHELH
 Unique No: 10843017
 Signed: Wes Davis
 Report Date: 22 Jan 2024

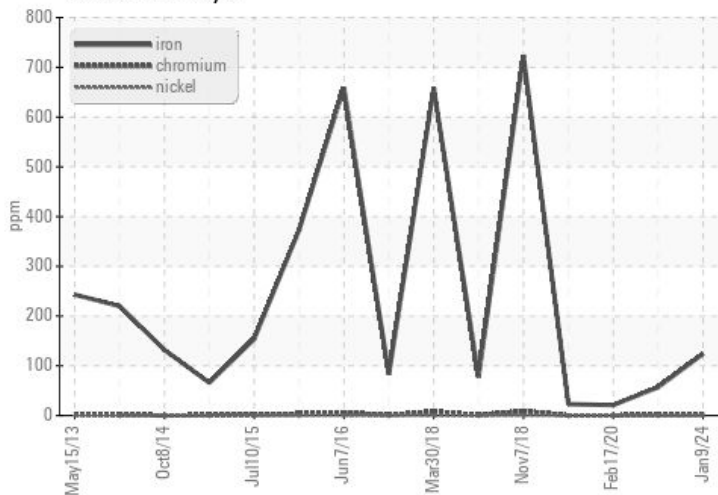
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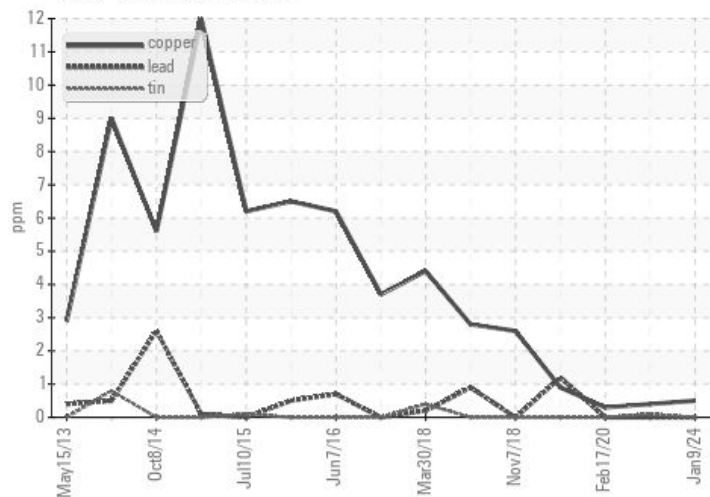


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

