

## LIEBHERR R944C R944C - Swing Drive

Sample No: LH0224642

Oil Type: CATALYS 80W90

## **SAMPLE INFORMATION**

Sample Number	LH0224642	LH0224635	LH0178476	LH0178470
Sample Date	19 Oct 2023	23 Sep 2022	01 Oct 2021	03 Dec 2020
Machine Hours	16000	1000	1000	1010
Oil Hours	1000	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL
	ION			
Visc @ 40°C cSt	0 132	136	135	0 143

Water	%	0.643			0.022	
Silicon	ppm	06	05	6	03	
Sodium	ppm	<b>○</b> <1	◯ <1	◯ <1	◯ <1	
Potassium	mqq	0 <1	00	○ <1	○ <1	

Ä					
WEA	R META	LS			
Iron	ppm	0 373	393	657	548
Copper	ppm	0 17	24	0 48	30
Lead	ppm	<b>○</b> <1	0 1	0 1	◯ <1
Tin	ppm	○ <1	○ <1	2	02
Aluminum	ppm	<b>○</b> <1	○ <1	◯ <1	◯ <1
Chromium	ppm	04	5	07	07
Molybdenum	ppm	0 🔘	○ <1	◯ <1	2
Nickel	ppm	01	0 2	2	02
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	<1
Manganese	ppm	2	3	4	4
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	<b>0</b> 15	3	6	20
Magnesium	ppm	<b>○</b> <1	○ <1	0 1	7
Zinc	ppm	0 18	6	8	15
Phosphorus	ppm	0 505	531	615	336
Barium	ppm	<b>○</b> <1	0	0	0
Boron	ppm	0 5	0 6	09	10





## CRAWFORD METAL CORPORATION

300 COLLEGE STREET EAST BELLEVILLE, ON CA K8N 5B3 Contact: Shawna Geen belleville@crawfordmetal.com T: F: (613)966-9954

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot:	CRABEL
Unique No:	5668179
Signed:	Kevin Marson
Report Date:	25 Oct 2023

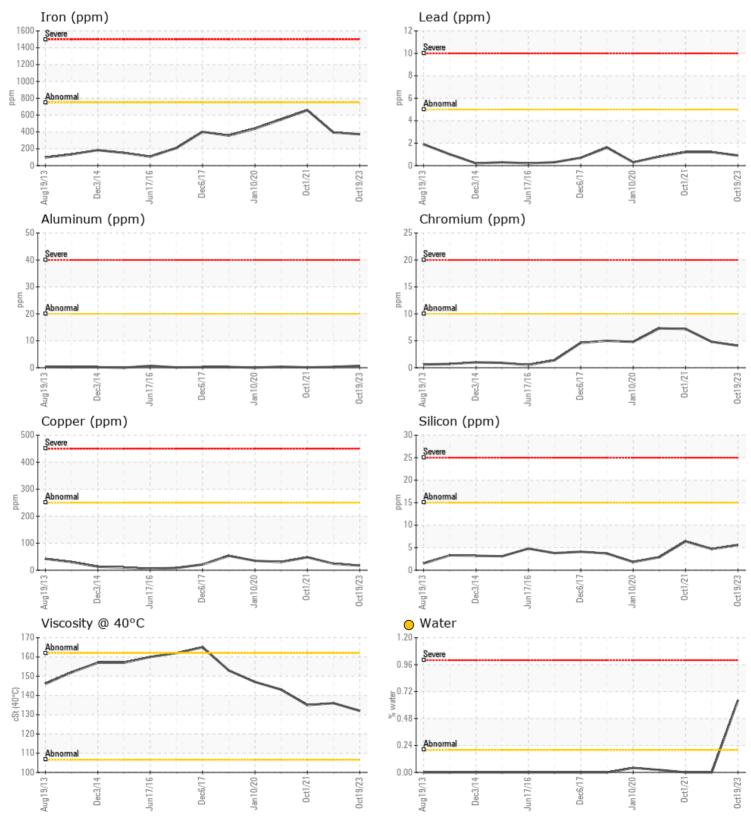
Contact/Location: Shawna Geen - CRABEL





GRAPHS

 $\odot$ 



Report Id: CRABEL [WCAMIS] 02591100 (Generated: 10/25/2023 10:28:06) Rev: 1