

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### MS20 - Swing Drive

Sample No: LH0244826

Oil Type: COMP OIL (POE) ISO 220



#### SAMPLE INFORMATION

Sample Number	LH0244826	LH0244843	---	---
Sample Date	05 Mar 2024	14 Dec 2023	---	---
Machine Hours	4047	3388	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	ABNORMAL	---	---

OSCAR WINSKI CO. INC

2407 N. 9TH STREET

LAFAYETTE, IN

US 47904

Contact: JAYSON FRAZIER

frazierj@oscarwinski.com

T: (765)376-1230

F: x:



#### OIL CONDITION

Visc @ 40°C	cSt	234	232	---	---
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#### CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	4	6	---	---
Sodium	ppm	0	0	---	---
Potassium	ppm	1	2	---	---



#### WEAR METALS

Iron	ppm	92	72	---	---
Copper	ppm	52	46	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	8	6	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	36	18	---	---
Magnesium	ppm	<1	2	---	---
Zinc	ppm	21	10	---	---
Phosphorus	ppm	540	382	---	---
Barium	ppm	0	0	---	---
Boron	ppm	6	7	---	---

#### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) COMP OIL (POE) ISO 220. Please confirm.

Please specify the component make and model with your next sample. 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: OSCLAF

Unique No: 10940059

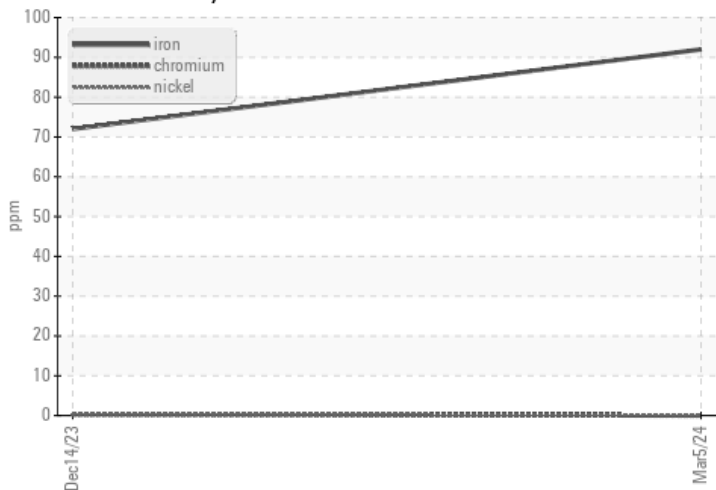
Signed: Wes Davis

Report Date: 25 Mar 2024

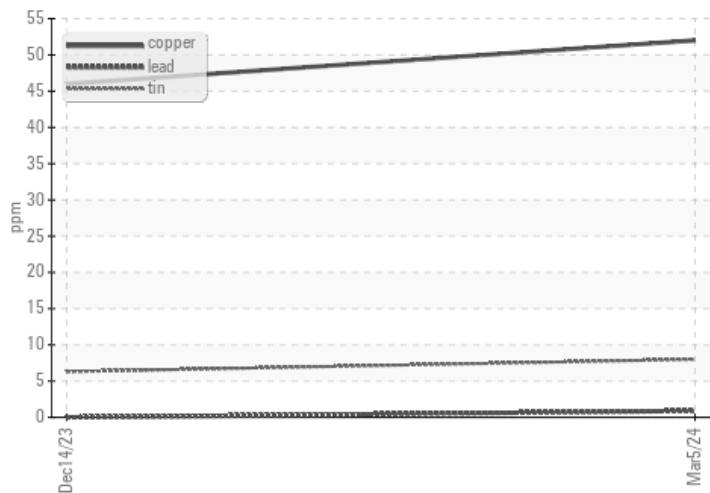


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

