

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### MS20 - Front Right Wheel Hub

Sample No: LH0244835

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LH0244835	---	---	---
Sample Date	14 Dec 2023	---	---	---
Machine Hours	3388	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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	● 127	---	---	---
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#### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 2	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 1	---	---	---



#### WEAR METALS

Iron	ppm	● 74	---	---	---
Copper	ppm	● 6	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	● 103	---	---	---
Magnesium	ppm	● 1	---	---	---
Zinc	ppm	● 43	---	---	---
Phosphorus	ppm	● 926	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 257	---	---	---

#### 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: OSCLAF

Unique No: 10807292

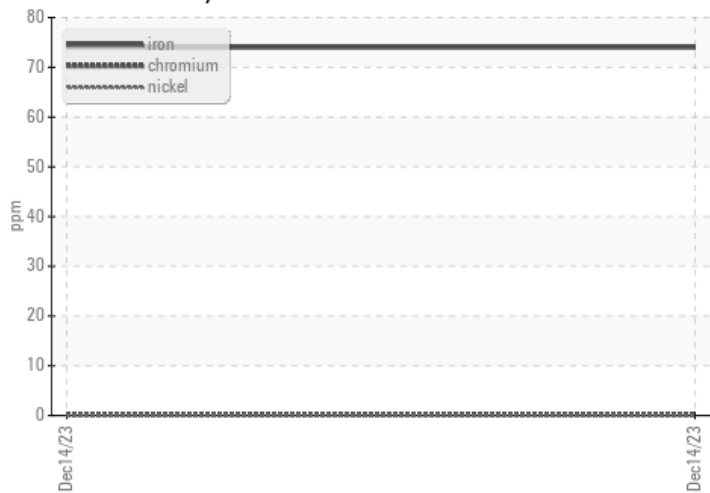
Signed: Jonathan Hester

Report Date: 29 Dec 2023

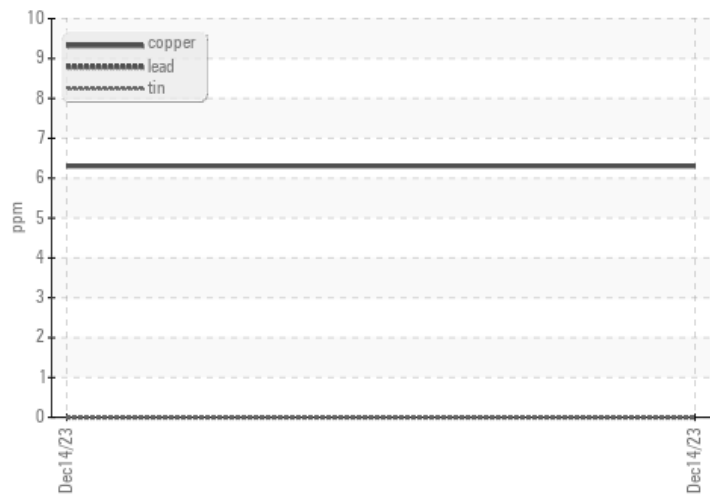


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

