

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### MS18 - Front Right Wheel Hub

Sample No: LHMC100133

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LHMC100133	LHMC131467	LHMC119691	---
Sample Date	01 Dec 2023	03 Aug 2023	13 May 2023	---
Machine Hours	5393	4388	3734	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	N/A	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OSCAR WINSKI CO. INC

2407 N. 9TH STREET

LAFAYETTE, IN

US 47904

Contact: PATRICK CHRISTOPHER

christopherp@oscarwinski.com

T: (765)427-3691

F: x:



#### OIL CONDITION

Visc @ 40°C	cSt	129	129	125	---
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	3	2	4	---
Sodium	ppm	5	6	4	---
Potassium	ppm	<1	2	<1	---



#### WEAR METALS

Iron	ppm	74	42	112	---
Copper	ppm	7	6	8	---
Lead	ppm	<1	0	0	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	<1	1	0	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	0	0	<1	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	1	1	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	152	127	118	---
Magnesium	ppm	13	4	1	---
Zinc	ppm	57	53	69	---
Phosphorus	ppm	836	807	987	---
Barium	ppm	0	0	0	---
Boron	ppm	152	166	251	---

#### Diagnosis

Resample at the next service interval to monitor. 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: 10877175

Signed: Wes Davis

Report Date: 16 Feb 2024



### GRAPHS

