

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 144379-1218 - Front Differential

Sample No: LH0255208

Oil Type: GEAR OIL SAE 80W90



**American Iron and Metal**  
 10305 Metropolitaine Est, Garage porte 13  
 Montreal, QC  
 CA H1B 1A1  
 Contact: Sebastien Liautaud  
 sliautaud@aimrecyclinggroup.com  
 T:  
 F:



#### SAMPLE INFORMATION

Sample Number	LH0255208	LH0255197	---	---
Sample Date	06 Dec 2023	09 Jun 2023	---	---
Machine Hours	2248	1110	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	● 162	● 162	---	---
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#### CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	● 10	● 8	---	---
Sodium	ppm	● 4	● 4	---	---
Potassium	ppm	● 0	● <1	---	---



#### WEAR METALS

Iron	ppm	● 11	● 8	---	---
Copper	ppm	● 6	● 4	---	---
Lead	ppm	● <1	● 0	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● <1	● <1	---	---
Chromium	ppm	● 0	● 0	---	---
Molybdenum	ppm	● 0	● 0	---	---
Nickel	ppm	● 0	● 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	● 0	● <1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	● 12	● 7	---	---
Magnesium	ppm	● <1	● <1	---	---
Zinc	ppm	● 10	● 7	---	---
Phosphorus	ppm	● 1428	● 1491	---	---
Barium	ppm	● 185	● 194	---	---
Boron	ppm	● 62	● 63	---	---

#### 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: LACMON  
 Unique No: 5695762  
 Signed: Wes Davis  
 Report Date: 12 Dec 2023



### GRAPHS

