

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A922 146822-1509 - Front Differential

Sample No: LH0278746

Oil Type: GEAR OIL SAE 80W90



**PNR RAILWORKS INC.**  
65 MASSEY ROAD  
GUELPH NW, ON  
CA N1H 7M6  
Contact: Service Manager



#### Information sur l'échantillon

Numéro d'échant.	LH0278746	LH0285068	---	---
Date d'échant.	07 Jul 2024	29 Jan 2024	---	---
Heures de la Machine	2014	1252	---	---
Heures de l'huile	0	0	---	---
Huile changée	Changed	Changed	---	---
Statut de l'échant.	NORMAL	NORMAL	---	---



#### État d'huile

Visc 40°C	cSt	● 111	● 138	---	---
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#### Contamination

Eau	%	NEG	NEG	---	---
Silicium	ppm	● 3	● 3	---	---
Sodium	ppm	● 1	● 4	---	---
Potassium	ppm	● <1	● 1	---	---



#### Métaux d'usure

Fer	ppm	● 56	● 13	---	---
Cuivre	ppm	● 46	● 16	---	---
Plomb	ppm	● 1	● <1	---	---
Étain	ppm	● 2	● 0	---	---
Aluminium	ppm	● <1	● <1	---	---
Chrome	ppm	● <1	● <1	---	---
Molybdène	ppm	● 0	● 0	---	---
Nickel	ppm	● <1	● <1	---	---
Titane	ppm	0	0	---	---
Argent	ppm	<1	0	---	---
Manganèse	ppm	● <1	● 1	---	---
Vanadium	ppm	0	0	---	---



#### Additifs

Calcium	ppm	● 14	● 9	---	---
Magnésium	ppm	● 2	● 1	---	---
Zinc	ppm	● 14	● 19	---	---
Phosphore	ppm	● 1309	● 1661	---	---
Baryum	ppm	● <1	● 17	---	---
Bore	ppm	● 275	● 129	---	---

T:  
F:

#### Diagnostic

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: PNRGUE  
Unique No: 5811984  
Signed: Wes Davis  
Report Date: 09 Jul 2024



### Graphs

