

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 120559-1216 - Rear Differential

Sample No: LH0261237

Oil Type: GEAR OIL SAE 80W90



**BOIS GRANVAL G D S INC**  
 10 RUE INDUSTRIELLE  
 GRANDE-VALLEE, QC  
 CA G0E 1K0  
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#### SAMPLE INFORMATION

Sample Number	<b>LH0261237</b>	LH0239007	LH	LH0177585
Sample Date	<b>09 Jul 2023</b>	11 Oct 2022	13 Sep 2021	12 Aug 2021
Machine Hours	<b>10181</b>	9355	0	6584
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	● 192	● 185	● 164	● 189
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#### CONTAMINATION

Silicon	ppm	● 3	● 12	● 2	● 3
Sodium	ppm	● 3	● 6	● 3	● 3
Potassium	ppm	● <1	● <1	● <1	● <1



#### WEAR METALS

Iron	ppm	● 23	● 58	● 22	● 36
Copper	ppm	● 2	● 4	● 4	● 6
Lead	ppm	● 0	● 0	● <1	● 0
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● <1	● 2	● <1	● <1
Chromium	ppm	● 0	● <1	● 0	● <1
Molybdenum	ppm	● 0	● 0	● 0	● <1
Nickel	ppm	● <1	● <1	● <1	● <1
Titanium	ppm	● 0	● <1	● 0	● 0
Silver	ppm	● 0	● 0	● 0	● <1
Manganese	ppm	● <1	● 1	● <1	● <1
Vanadium	ppm	● 0	● 0	● 0	● 0



#### ADDITIVES

Calcium	ppm	● 4	● 8	● 12	● 12
Magnesium	ppm	● 1	● 1	● 2	● 6
Zinc	ppm	● 6	● 9	● 10	● 19
Phosphorus	ppm	● 2279	● 2394	● 2286	● 2420
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● 3	● 15	● 31	● 5

#### Diagnosis

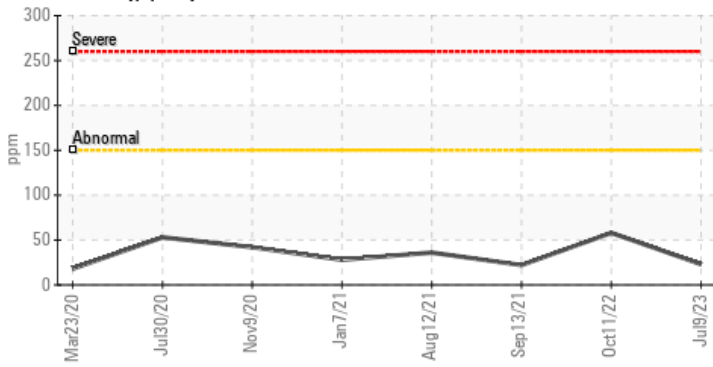
Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. La teneur en eau est négligeable. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.

Depot: BOIGRA  
 Unique No: 5619630  
 Signed: Wes Davis  
 Report Date: 08 Aug 2023

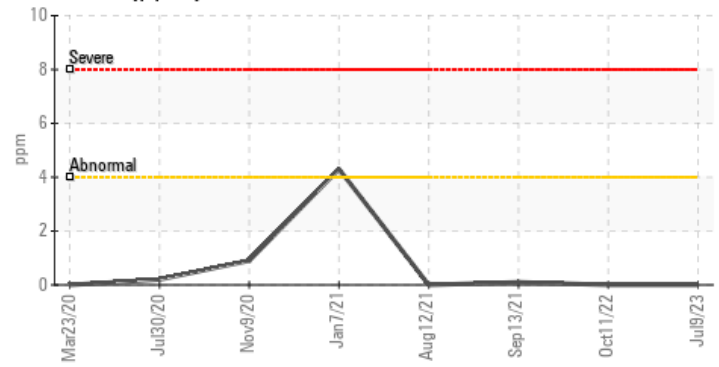


### GRAPHS

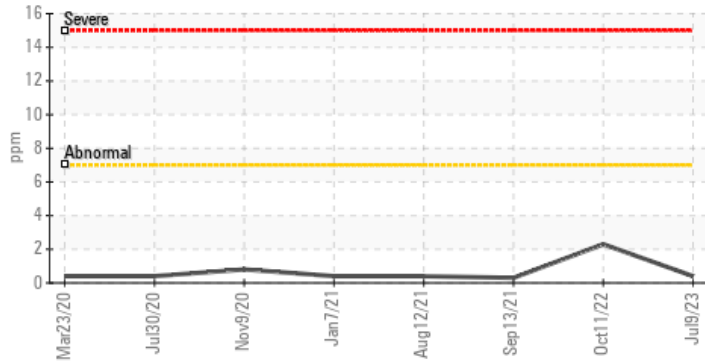
Iron (ppm)



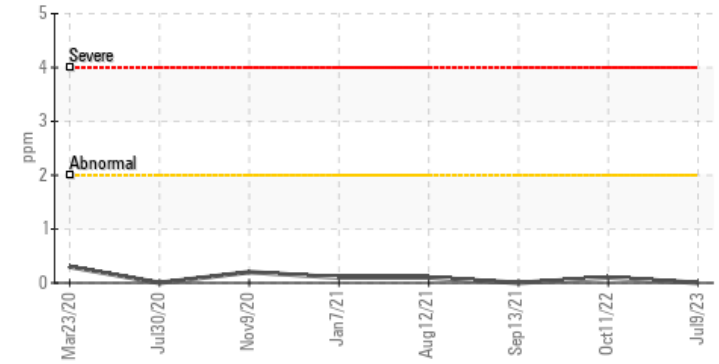
Lead (ppm)



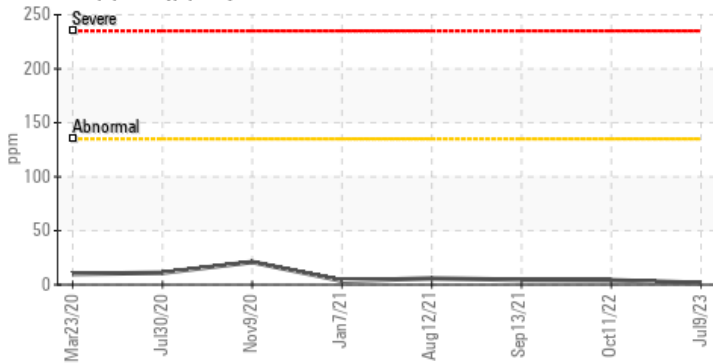
Aluminum (ppm)



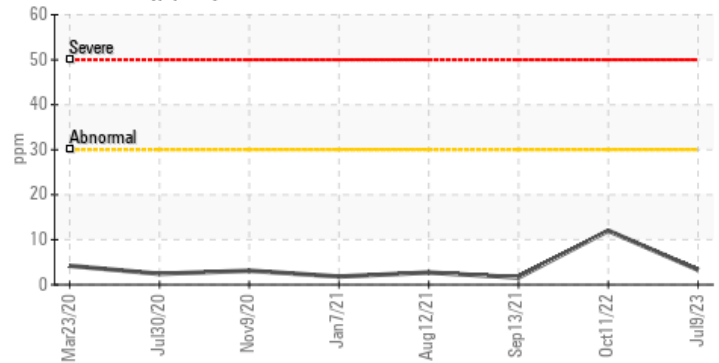
Chromium (ppm)



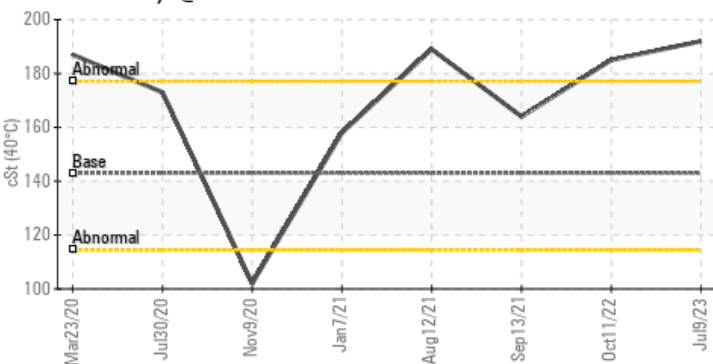
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

