

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 120559-1216 - Transmission (Manual)

Sample No: LH0261240

Oil Type: TDTO FLUID SAE 10W



**BOIS GRANVAL G D S INC**

10 RUE INDUSTRIELLE  
GRANDE-VALLEE, QC  
CA G0E 1K0

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#### SAMPLE INFORMATION

Sample Number	<b>LH0261240</b>	LH0238981	LH	LH0194181
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>SEVERE</b>	SEVERE	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	<b>55.6</b>	52.8	54.7	50.3
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#### CONTAMINATION

Silicon	ppm	<b>6</b>	7	4	6
Sodium	ppm	<b>6</b>	10	4	5
Potassium	ppm	<b>1</b>	<1	<1	1



#### WEAR METALS

Iron	ppm	<b>109</b>	153	63	81
Copper	ppm	<b>546</b>	732	26	35
Lead	ppm	<b>14</b>	20	<1	1
Tin	ppm	<b>3</b>	5	2	2
Aluminum	ppm	<b>3</b>	4	2	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>60</b>	61	59	56
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>9</b>	15	6	9
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

Calcium	ppm	<b>1095</b>	1155	1104	1076
Magnesium	ppm	<b>956</b>	963	1016	949
Zinc	ppm	<b>1191</b>	1212	1258	1199
Phosphorus	ppm	<b>1170</b>	1184	1156	1157
Barium	ppm	<b>&lt;1</b>	<1	<1	<1
Boron	ppm	<b>10</b>	10	10	16

#### Diagnosis

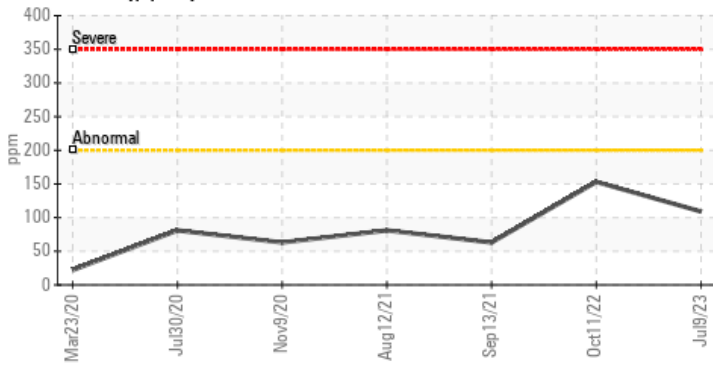
Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Usure de disque d'embrayage et (ou) du système de refroidissement. La teneur en eau est négligeable. Il n'y a aucun indice de contamination dans le fluide. La viscosité de l'échantillon se situe dans la portée de l'SAE 20; nous vous conseillons de vérifier. le fluide n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Depot: BOIGRA  
Unique No: 5619613  
Signed: Kevin Marson  
Report Date: 09 Aug 2023

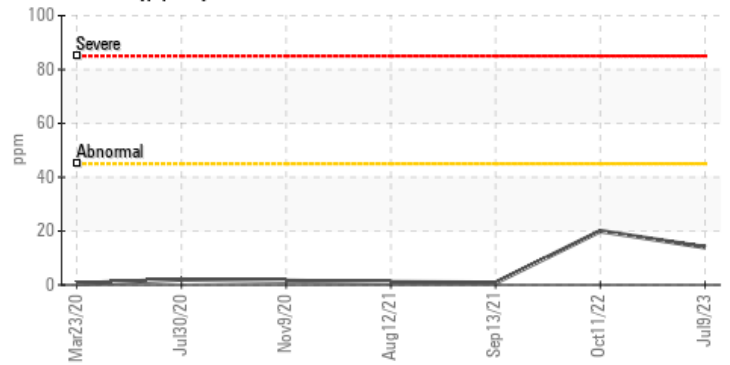


### GRAPHS

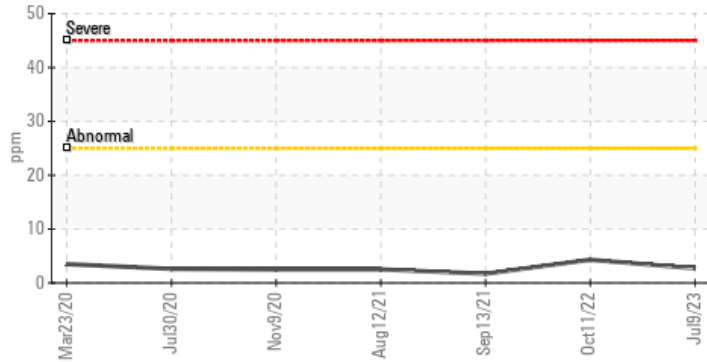
Iron (ppm)



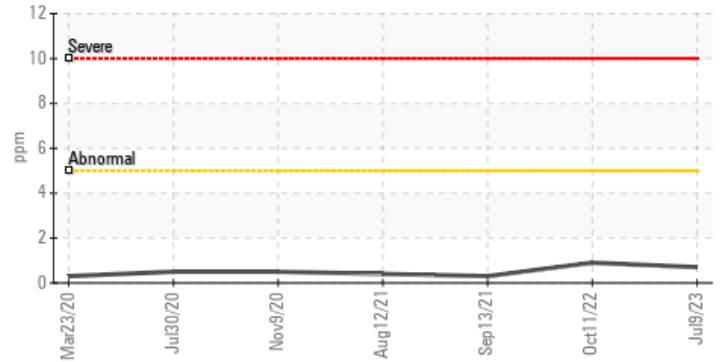
Lead (ppm)



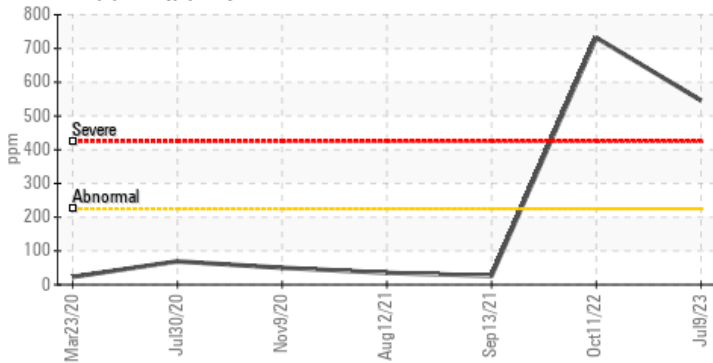
Aluminum (ppm)



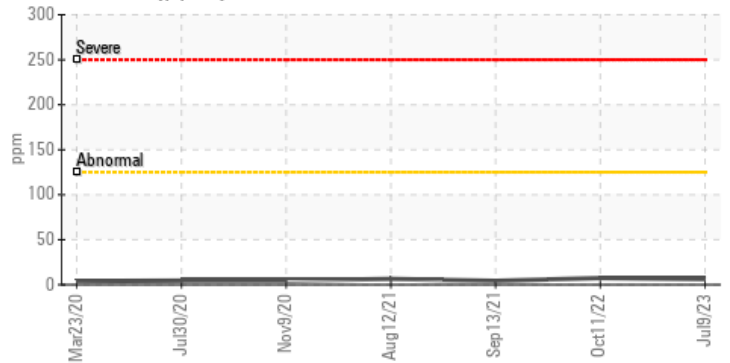
Chromium (ppm)



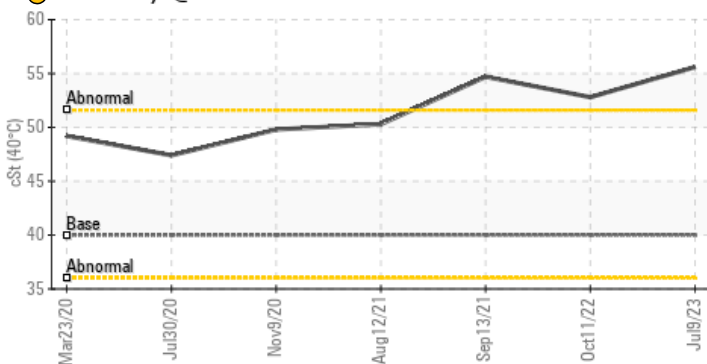
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

