

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 112210-1216 - Diesel Engine

Sample No: LH0274077

Oil Type: PETRO CANADA SUPREME 5W30



#### SAMPLE INFORMATION

Sample Number	LH0274077	LH0256250	LH0242210	LH0242162
Sample Date	02 Nov 2023	08 May 2023	07 Mar 2023	04 Jan 2023
Machine Hours	21000	18945	18000	17110
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

#### Resolute Forest Products

1, chemin de la Scierie, Case postale 2250  
Baie-Comeau, QC  
CA G5C 2S8  
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F: (418)960-2788



#### OIL CONDITION

Visc @ 100°C	cSt	11.6	11.6	11.6	11.7
Oxidation (PA)	%	100	89	91	95



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	90	83	85	94
Sulfation (PA)	%	66	61	68	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	6	6	9
Sodium	ppm	5	5	4	5
Potassium	ppm	0	0	0	0

#### 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. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.



#### WEAR METALS

Iron	ppm	6	3	4	5
Copper	ppm	2	<1	<1	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	1	1	1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	60	61	62	62
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

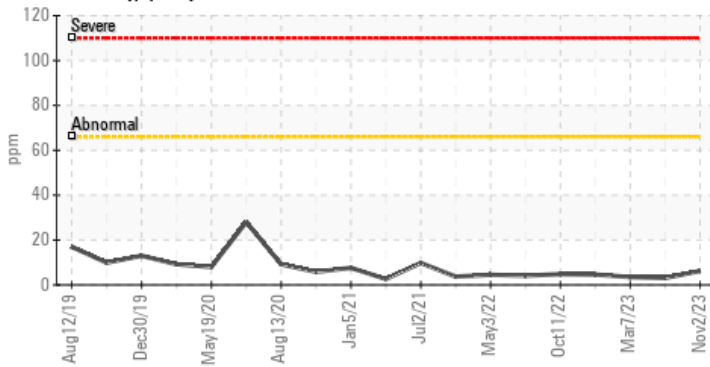
Calcium	ppm	841	905	881	896
Magnesium	ppm	1161	1180	1161	1184
Zinc	ppm	1258	1305	1271	1287
Phosphorus	ppm	1014	1140	1116	1143
Barium	ppm	<1	0	0	0
Boron	ppm	18	27	32	22

Depot: RESBAI  
Unique No: 5671954  
Signed: Kevin Marson  
Report Date: 08 Nov 2023

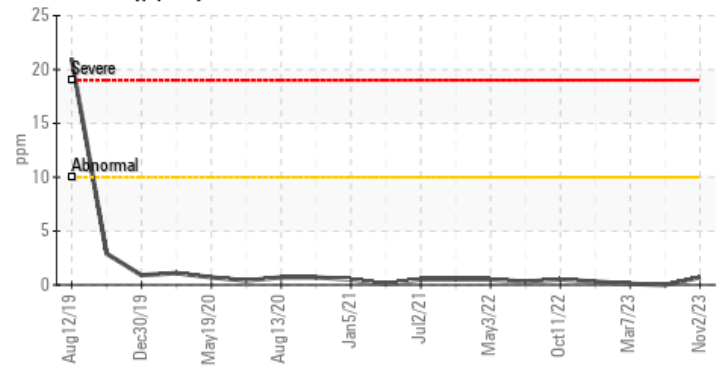


### GRAPHS

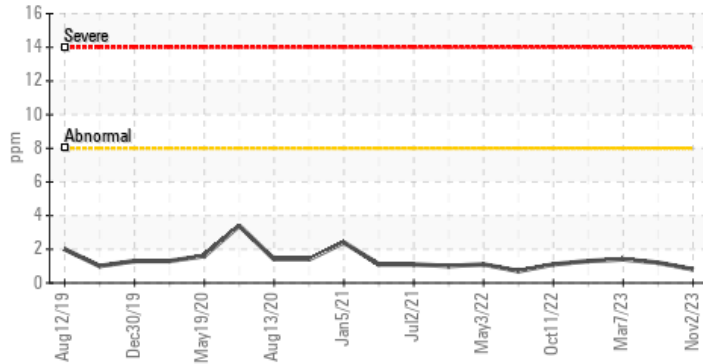
Iron (ppm)



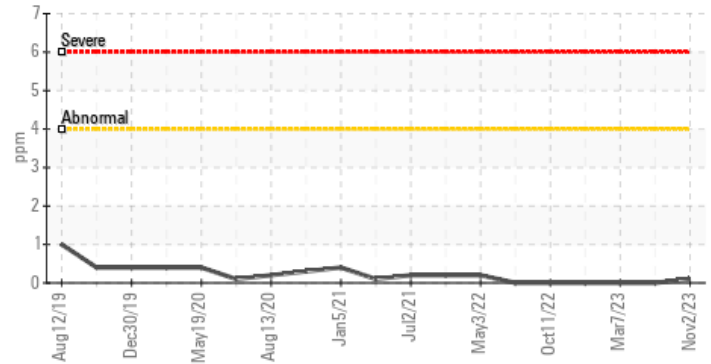
Lead (ppm)



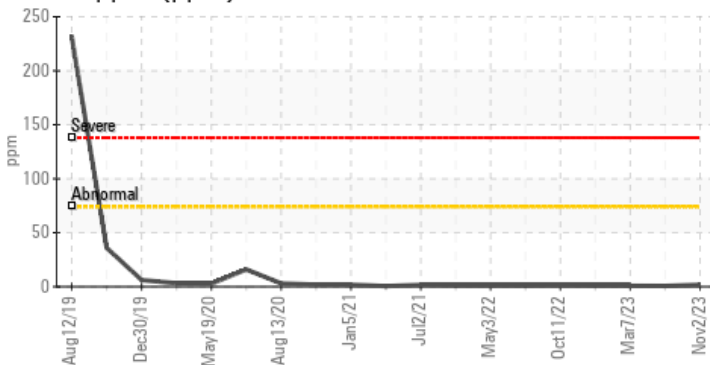
Aluminum (ppm)



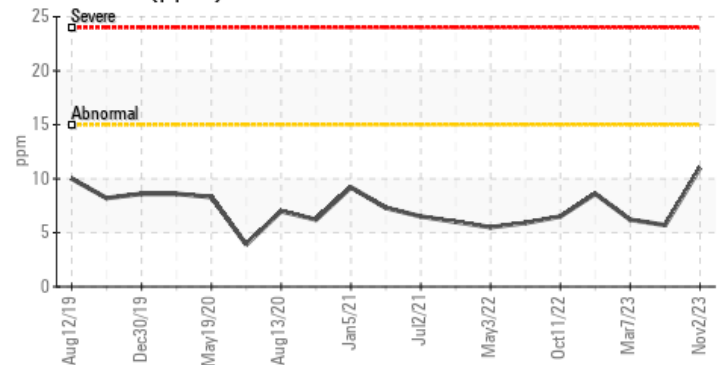
Chromium (ppm)



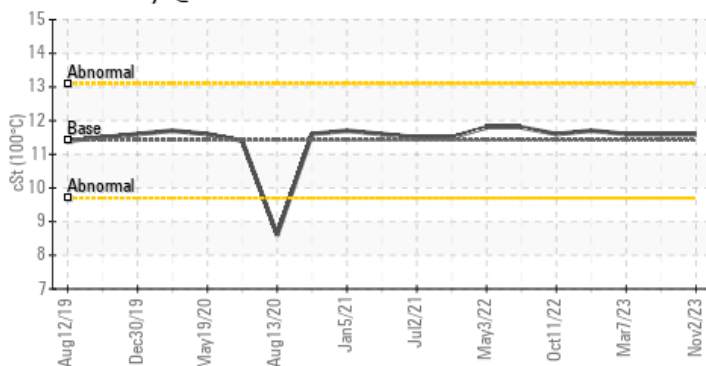
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

