

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(341435)] LIEBHERR LH50M 128733-1216 - Diesel Engine

Sample No: LH0277782

Oil Type: SAE 5W30



#### INFORMATION SUR L'ÉCHANTILLON

Número d'échant.	LH0277782	LH0274634	LH0256943	LH0256837
Date d'échant.	20 Nov 2023	16 Aug 2023	11 Jun 2023	30 Mar 2023
Heures de la Machine	8180	7532	14253	6168
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	NORMAL	NORMAL	NORMAL	NORMAL

**COMBINED METAL INDUSTRIES**  
454 DOBBIE DRIVE  
CAMBRIDGE, ON  
CA N1T 1S7  
Contact: Service Manager



#### ÉTAT D'HUILE

Visc 100°C	cSt	12.3	12.9	13.0	12.9
Oxydation (PA)	%	76	69	63	66

T:  
F:



#### CONTAMINATION

Eau	%	NEG	NEG	NEG	NEG
% de suie	%	0	0	0	0
Nitration (PA)	%	77	74	66	72
Sulfatation (PA)	%	58	56	52	59
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	<1.0	<1.0	<1.0	<1.0
Silicium	ppm	7	6	7	6
Sodium	ppm	2	2	1	2
Potassium	ppm	0	<1	0	<1

#### 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.



#### MÉTAUX D'USURE

Fer	ppm	5	5	3	3
Cuivre	ppm	2	3	3	1
Plomb	ppm	<1	<1	<1	<1
Étain	ppm	<1	<1	<1	<1
Aluminium	ppm	2	1	<1	2
Chrome	ppm	<1	<1	0	0
Molybdène	ppm	61	59	58	59
Nickel	ppm	0	0	0	0
Titane	ppm	0	0	<1	<1
Argent	ppm	<1	<1	0	0
Manganèse	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIFS

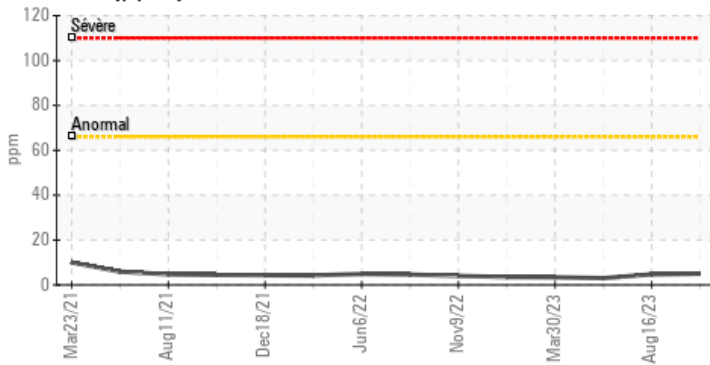
Calcium	ppm	1078	1055	1104	1143
Magnésium	ppm	988	1001	943	972
Zinc	ppm	1216	1207	1190	1202
Phosphore	ppm	1002	1066	1084	1090
Baryum	ppm	<1	0	0	0
Bore	ppm	3	2	3	4

Depot: COM454CAM  
Unique No: 5682912  
Signed: Wes Davis  
Report Date: 21 Nov 2023

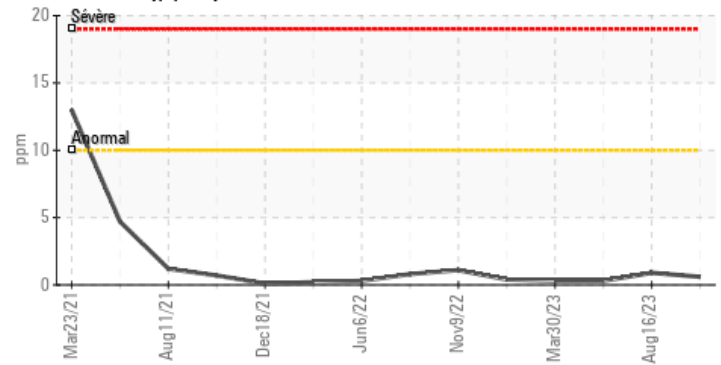


### GRAPHS

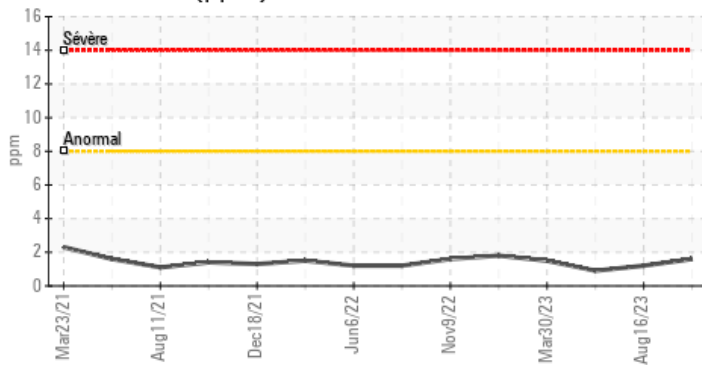
Fer (ppm)



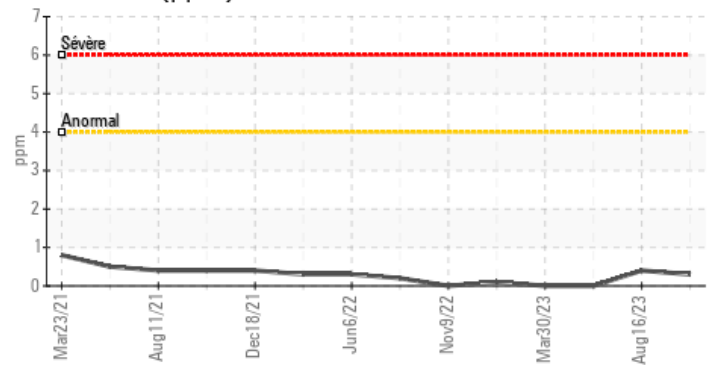
Plomb (ppm)



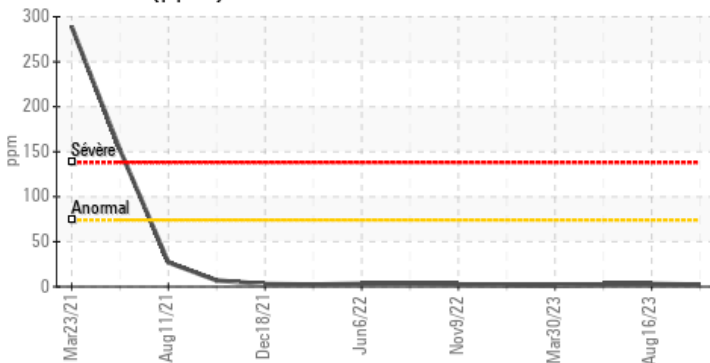
Aluminium (ppm)



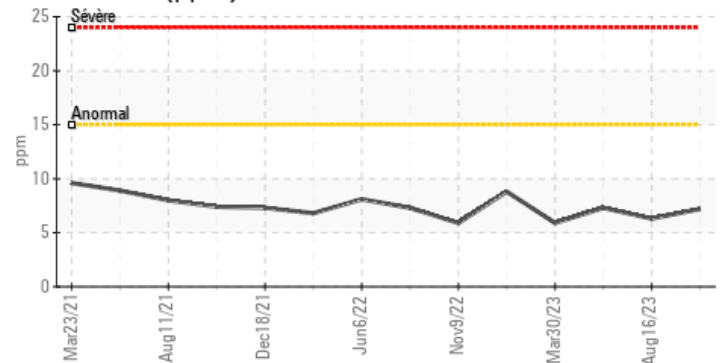
Chrome (ppm)



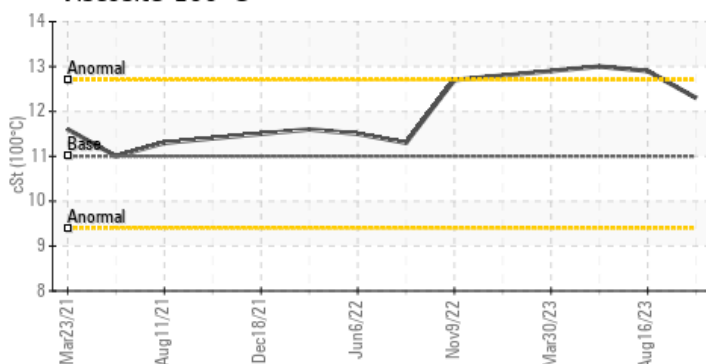
Cuivre (ppm)



Silicium (ppm)



Viscosité 100°C



% de suie

