

# LIEBHERR

## CONSTRUCTION EQUIPMENT



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

Sample No: LH0289407

Oil Type: SAE 5W30



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



#### Information sur l'échantillon

Numéro d'échant.	LH0289407	LH0286551	LH0278632	LH0277782
Date d'échant.	17 Jun 2024	19 Mar 2024	17 Jan 2024	20 Nov 2023
Heures de la Machine	10161	9241	8647	8180
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	NORMAL	NORMAL	NORMAL	NORMAL



#### État d'huile

Visc 100°C	cSt	12.4	11.3	13.0	12.3
Oxydation (PA)	%	92	90	66	76



#### Contamination

Eau	%	NEG	NEG	NEG	NEG
% de suie	%	0	0	0	0
Nitration (PA)	%	83	84	68	77
Sulfatation (PA)	%	63	60	53	58
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	<1.0	<1.0	<1.0	<1.0
Silicium	ppm	8	6	5	7
Sodium	ppm	2	4	1	2
Potassium	ppm	<1	<1	2	0



#### Métaux d'usure

Fer	ppm	6	5	3	5
Cuivre	ppm	2	2	1	2
Plomb	ppm	<1	0	<1	<1
Étain	ppm	0	0	0	<1
Aluminium	ppm	1	<1	2	2
Chrome	ppm	<1	<1	<1	<1
Molybdène	ppm	62	62	56	61
Nickel	ppm	<1	0	<1	0
Titane	ppm	0	0	0	0
Argent	ppm	0	0	0	<1
Manganèse	ppm	<1	0	0	0
Vanadium	ppm	0	0	0	0



#### Additifs

Calcium	ppm	1117	869	1088	1078
Magnésium	ppm	1004	1141	940	988
Zinc	ppm	1254	1213	1161	1216
Phosphore	ppm	1018	1001	998	1002
Baryum	ppm	<1	0	0	<1
Bore	ppm	5	27	4	3

T:  
F:

#### Diagnostic

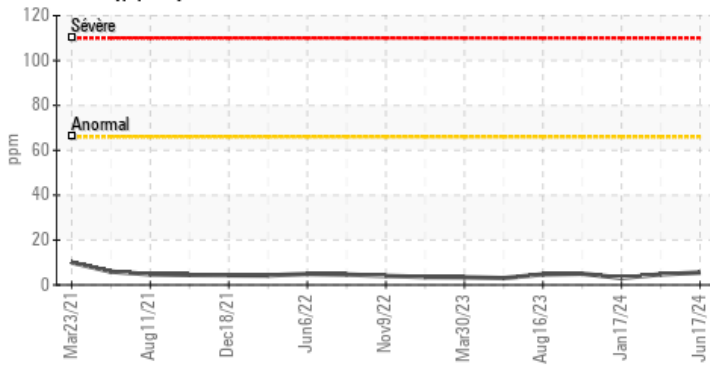
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: COM454CAM  
Unique No: 5800035  
Signed: Wes Davis  
Report Date: 18 Jun 2024

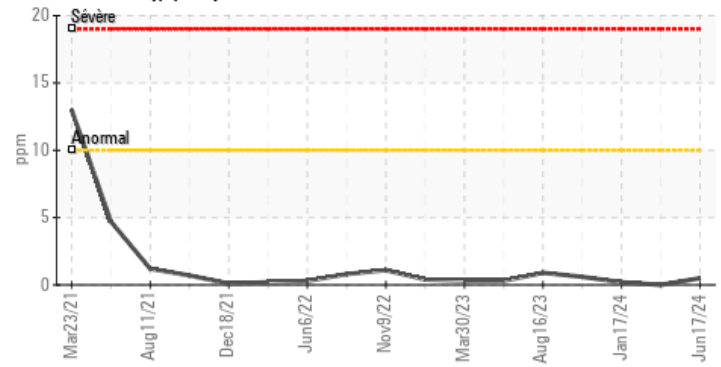


### Graphs

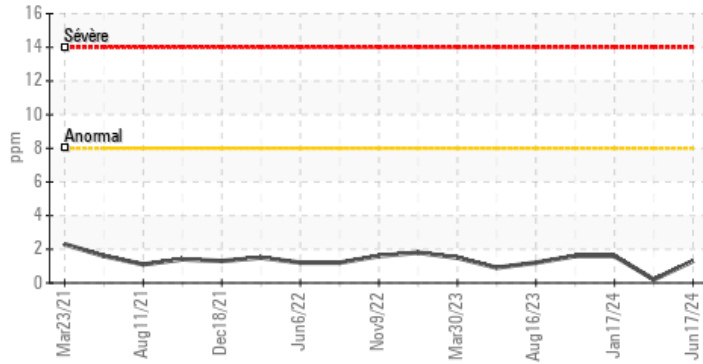
Fer (ppm)



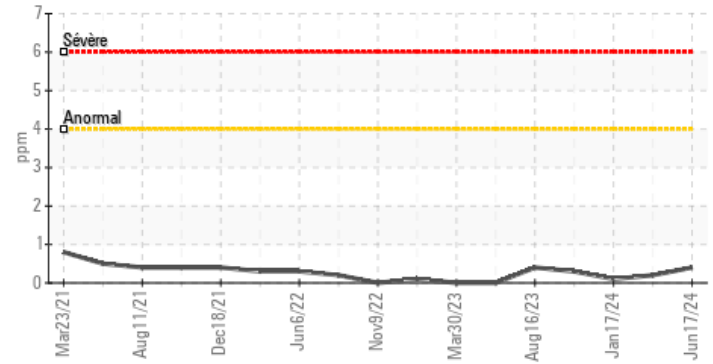
Plomb (ppm)



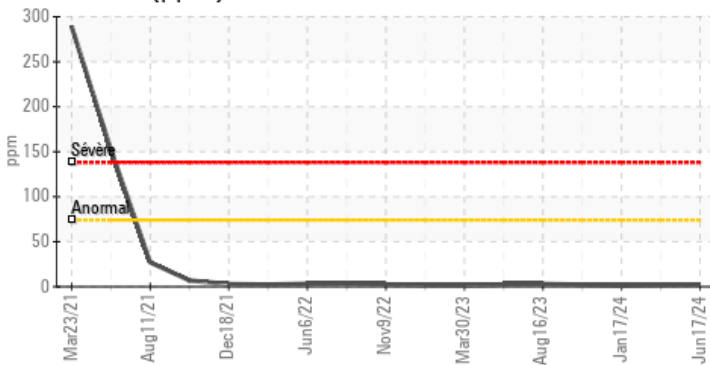
Aluminium (ppm)



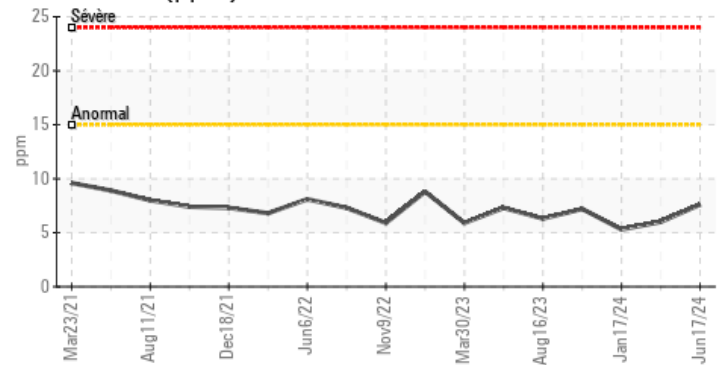
Chrome (ppm)



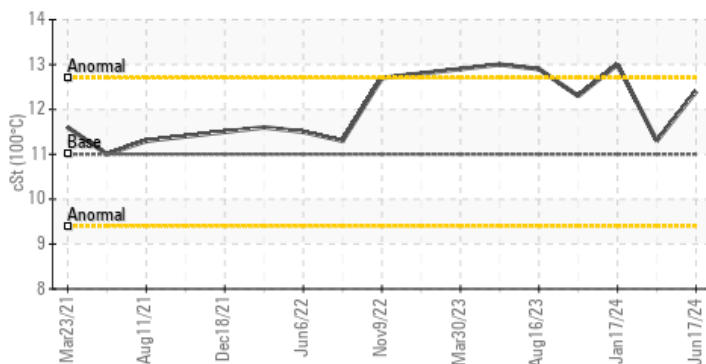
Cuivre (ppm)



Silicium (ppm)



Viscosité 100°C



% de suie

