

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(341435)] LIEBHERR LH50M 128733-1216 - Swing Drive

Sample No: LH0277772

Oil Type: GEAR OIL SAE 80W90



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



#### INFORMATION SUR L'ÉCHANTILLON

Número d'échant.	LH0277772	LH0256935	LH0256836	LH0222368
Date d'échant.	20 Nov 2023	11 Jun 2023	30 Mar 2023	09 Nov 2022
Heures de la Machine	8180	14253	6168	5058
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 40°C	cSt	101	104	98.1	99.0
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#### CONTAMINATION

Eau	%	0.057	NEG	NEG	NEG
Silicium	ppm	5	3	2	2
Sodium	ppm	1	<1	1	<1
Potassium	ppm	0	0	2	0



#### MÉTAUX D'USURE

Fer	ppm	682	43	47	56
Cuivre	ppm	88	24	32	32
Plomb	ppm	2	<1	<1	<1
Étain	ppm	3	<1	1	<1
Aluminium	ppm	<1	0	<1	0
Chrome	ppm	6	<1	<1	<1
Molybdène	ppm	<1	0	0	0
Nickel	ppm	2	0	0	0
Titane	ppm	0	0	0	0
Argent	ppm	<1	0	0	0
Manganèse	ppm	5	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIFS

Calcium	ppm	20	5	10	17
Magnésium	ppm	5	2	2	2
Zinc	ppm	20	9	11	8
Phosphore	ppm	1226	1394	1349	1295
Baryum	ppm	<1	0	0	0
Bore	ppm	270	311	321	314

T:  
F:

#### Diagnostic

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. An increase in the copper level is noted. All other component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: COM454CAM  
Unique No: 5683056  
Signed: Kevin Marson  
Report Date: 24 Nov 2023



### GRAPHS

