

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(343446)] LIEBHERR LH60M 124381-1217 - Diesel Engine

Sample No: LH0285014

Oil Type: SAE 5W30



#### RAM IRON AND METAL

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CA M3J 1Z5  
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#### INFORMATION SUR L'ÉCHANTILLON

Número d'échant.	LH0285014	LH0265839	LH0261593	LH0256687
Date d'échant.	12 Feb 2024	26 Jun 2023	03 May 2023	02 Apr 2023
Heures de la Machine	12500	10141	9520	9107
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	13.6	13.2	13.7	13.3
Oxydation (PA)	%	76	80	68	76



#### CONTAMINATION

Eau	%	NEG	NEG	NEG	NEG
% de suie	%	0	0	0	0
Nitration (PA)	%	80	78	68	82
Sulfatation (PA)	%	55	57	52	61
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	<1.0	<1.0	<1.0	<1.0
Silicium	ppm	8	7	7	6
Sodium	ppm	1	2	1	2
Potassium	ppm	2	<1	0	<1



#### MÉTAUX D'USURE

Fer	ppm	4	3	2	3
Cuivre	ppm	<1	1	1	<1
Plomb	ppm	0	<1	<1	<1
Étain	ppm	0	0	<1	<1
Aluminium	ppm	2	1	1	1
Chrome	ppm	<1	<1	0	0
Molybdène	ppm	57	58	58	59
Nickel	ppm	<1	0	0	0
Titane	ppm	0	0	<1	<1
Argent	ppm	0	0	0	0
Manganèse	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIFS

Calcium	ppm	1109	1043	1040	1102
Magnésium	ppm	941	978	955	972
Zinc	ppm	1176	1194	1155	1196
Phosphore	ppm	993	1051	1079	1064
Baryum	ppm	0	0	0	0
Bore	ppm	2	2	<1	4

#### 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. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: RAMTOR  
Unique No: 5724302  
Signed: Kevin Marson  
Report Date: 13 Feb 2024



### GRAPHS

