

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH80M 122402-1218 - Diesel Engine

Sample No: LH0274208

Oil Type: PETRO CANADA 10W40



ARCELORMITTAL LONG PRODUITS CANADA  
3185 ROUTE MARIE-VICTORIN  
CONTRECOEUR, QC  
CA J0L 1C0  
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#### SAMPLE INFORMATION

Sample Number	LH0274208	LH0269945	LH0225330	LH0242955
Sample Date	21 Oct 2023	19 Aug 2023	17 Jun 2023	23 May 2023
Machine Hours	8989	8585	7934	8121
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 100°C	cSt	13.1	12.9	12.7	13.1
Oxidation (PA)	%	186	186	194	206



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	92	100	98	110
Sulfation (PA)	%	107	110	109	115
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	5
Sodium	ppm	<1	<1	<1	2
Potassium	ppm	3	8	<1	3



#### WEAR METALS

Iron	ppm	5	7	5	7
Copper	ppm	2	2	2	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	3	3	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	45	49	47	48
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	<1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	996	1053	1036	1124
Magnesium	ppm	839	882	865	877
Zinc	ppm	1162	1187	1157	1231
Phosphorus	ppm	988	1071	1055	1080
Barium	ppm	<1	0	0	0
Boron	ppm	58	47	67	58

#### 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.

Depot: MITCON  
Unique No: 5669051  
Signed: Kevin Marson  
Report Date: 26 Oct 2023



### GRAPHS

