

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH80M 120282-1218 - Diesel Engine

Sample No: LH0261210

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	LH0261210	LH0256418	LH0242893	LH0242883
Sample Date	01 Jul 2023	13 May 2023	17 Mar 2023	12 Mar 2023
Machine Hours	11397	10974	10300	10316
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL



#### OIL CONDITION

Visc @ 40°C	cSt	---	---	---	77.1
Visc @ 100°C	cSt	12.7	13.0	13.0	12.7
Viscosity Index (VI)	Scale	---	---	---	164
Oxidation (PA)	%	184	170	172	218



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	94	63	65	115
Sulfation (PA)	%	106	104	110	121
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.1	<1.0	2.3
Silicon	ppm	5	6	6	6
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	2	0	<1	0



#### WEAR METALS

Iron	ppm	5	3	3	9
Copper	ppm	<1	<1	<1	1
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	3	2	2	3
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	49	48	47	50
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1057	1100	1102	1108
Magnesium	ppm	899	891	877	869
Zinc	ppm	1210	1226	1173	1213
Phosphorus	ppm	1098	1138	1132	1097
Barium	ppm	0	0	0	0
Boron	ppm	58	114	124	67

#### 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: 5606300  
Signed: Kevin Marson  
Report Date: 12 Jul 2023



### GRAPHS

