



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id  
**LIEBHERR LH80M 122402-1218**

Component  
**Swing Drive**

Fluid  
**CHEVRON DELO SYNTHETIC GEAR 75W90 (13 LTR)**

### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.  
Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0279323</b>	LH0279419	LH0274205
Sample Date		Client Info		<b>12 Jan 2024</b>	23 Dec 2023	21 Oct 2023
Machine Age	hrs	Client Info		<b>16208</b>	9463	8989
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

Les taux d'usure de tous les composants sont normaux.

Iron	ppm	ASTM D5185(m)	>350	<b>319</b>	274	▲ 679
Chromium	ppm	ASTM D5185(m)	>15	<b>3</b>	3	5
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	1	4
Copper	ppm	ASTM D5185(m)	>300	<b>47</b>	46	119
Tin	ppm	ASTM D5185(m)	>15	<b>2</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

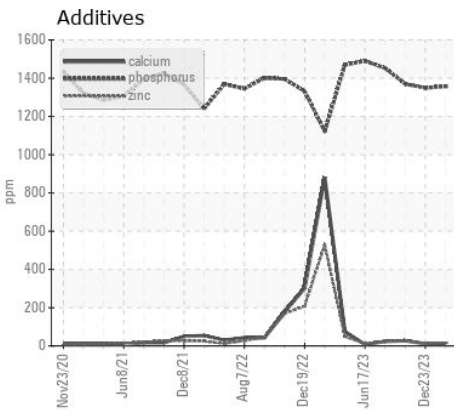
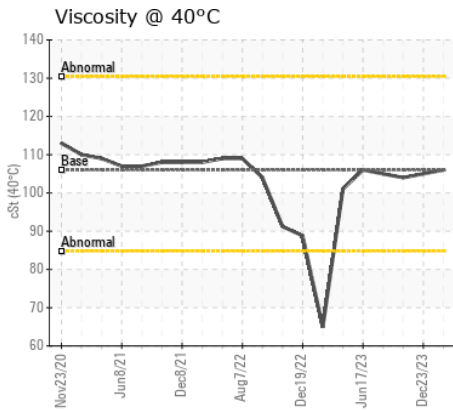
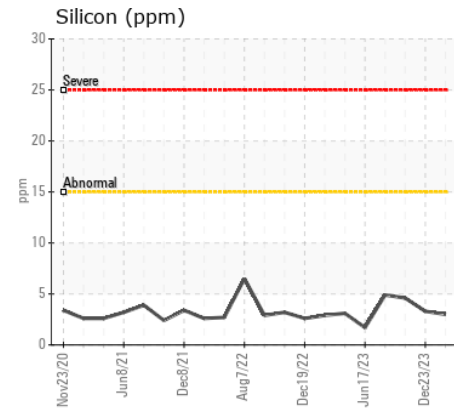
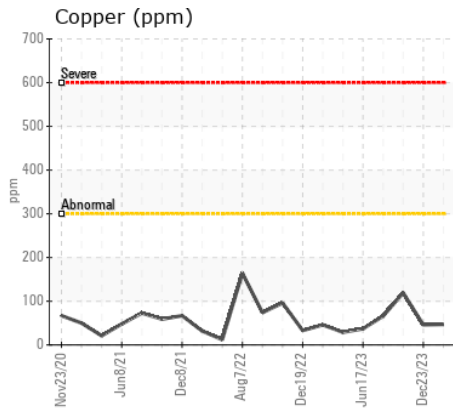
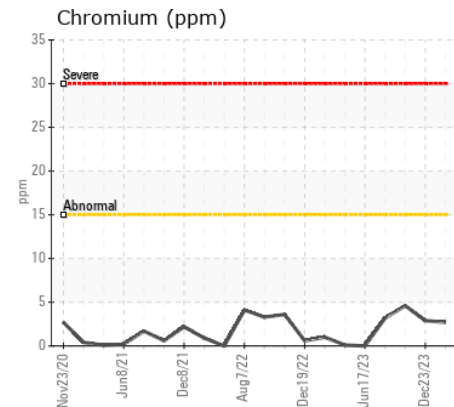
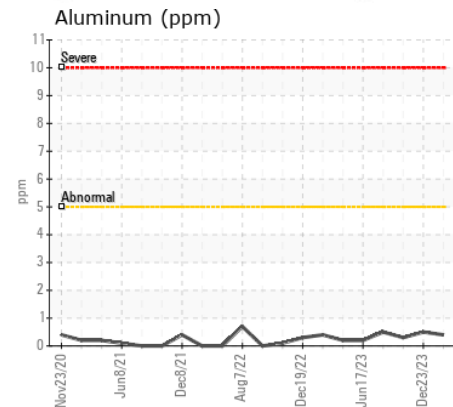
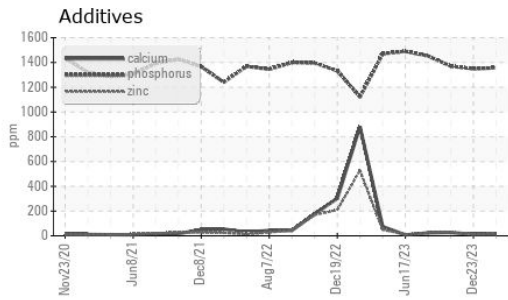
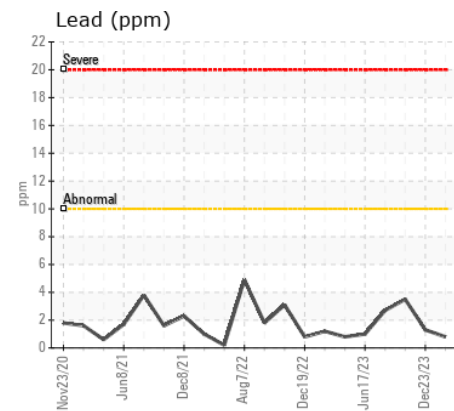
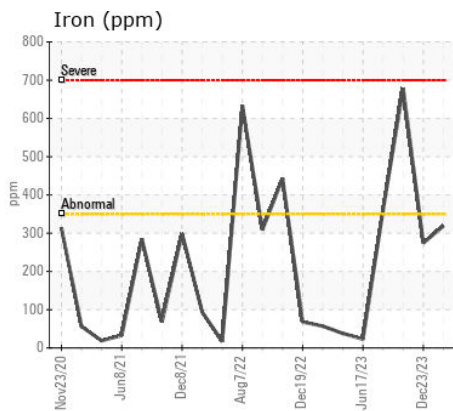
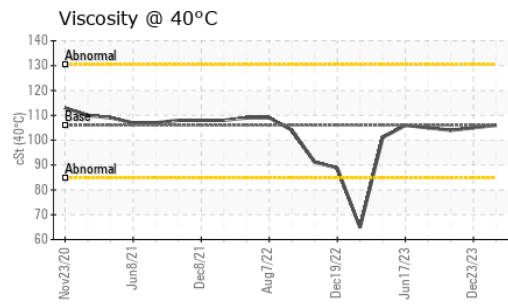
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>15	<b>3</b>	3	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	▲ .2%	NEG

### FLUID CONDITION

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		<b>0</b>	2	1
Boron	ppm	ASTM D5185(m)		<b>218</b>	236	229
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>2</b>	1	4
Magnesium	ppm	ASTM D5185(m)		<b>1</b>	1	2
Calcium	ppm	ASTM D5185(m)		<b>10</b>	12	27
Phosphorus	ppm	ASTM D5185(m)		<b>1357</b>	1349	1370
Zinc	ppm	ASTM D5185(m)		<b>16</b>	12	27
Sulfur	ppm	ASTM D5185(m)		<b>21770</b>	21782	23087
Visc @ 40°C	cSt	ASTM D7279(m)	106	<b>106</b>	105	104



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ARCELORMITTAL LONG PRODUITS CANADA  
**Sample No.** : LH0279323 **Received** : 16 Jan 2024 3185 ROUTE MARIE-VICTORIN  
**Lab Number** : 02609087 **Diagnosed** : 16 Jan 2024 CONTRECOEUR, QC  
**Unique Number** : 5710173 **Diagnostician** : Wes Davis CA J0L 1C0  
**Test Package** : MOB 1

To discuss this sample report, contact Customer Service at 1-800-268-2131. Contact: Danny Drouin  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. danny.drouin@arcelormittal.com  
 Validity of results and interpretation are based on the sample and information as supplied. T:  
F: