



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**LIEBHERR LH80M 122402-1218**

Component  
**Front Right Wheel Hub**

Fluid  
**CHEVRON DELO SYNTHETIC GEAR 75W90 (--- GAL)**

### 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>LH0279327</b>	LH0279423	LH0274201
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>	NORMAL	NORMAL

### WEAR

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

Iron	ppm	ASTM D5185(m)	>650	<b>21</b>	62	199
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	1	3
Lead	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>60	<b>&lt;1</b>	1	3
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

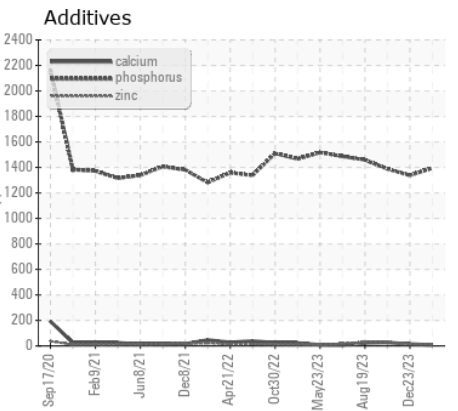
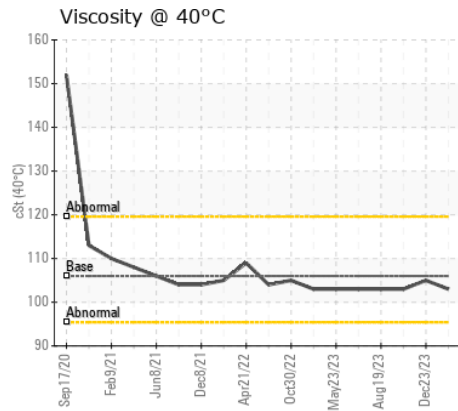
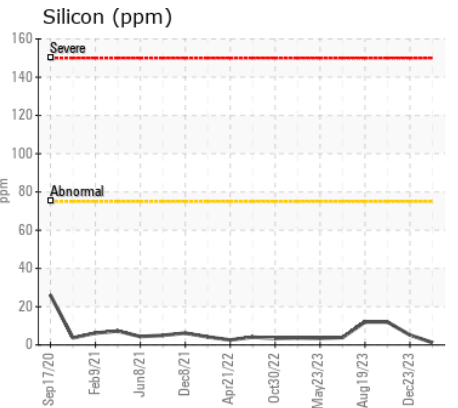
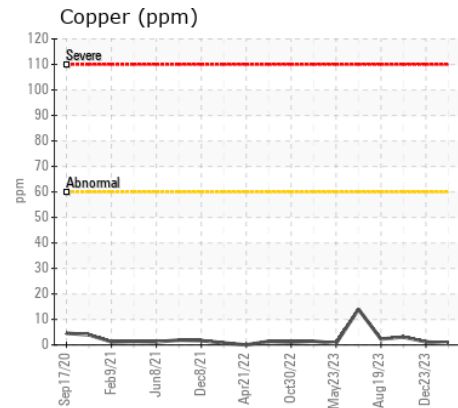
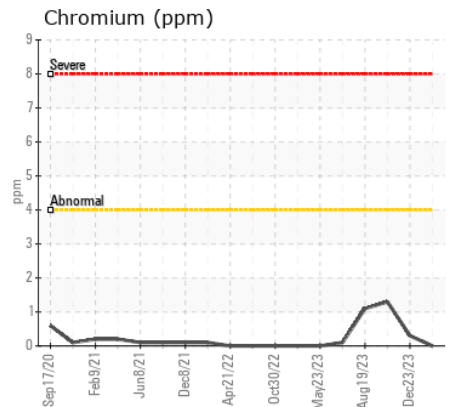
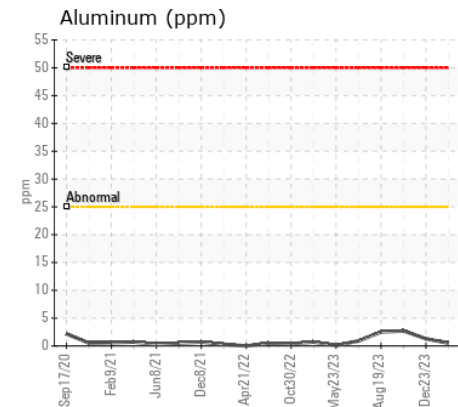
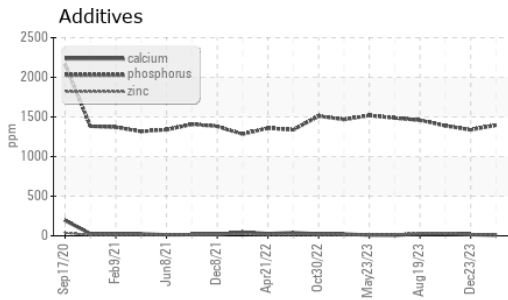
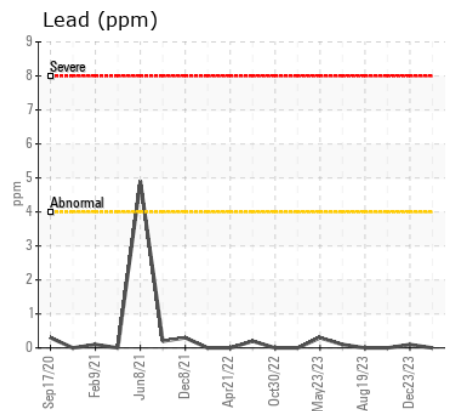
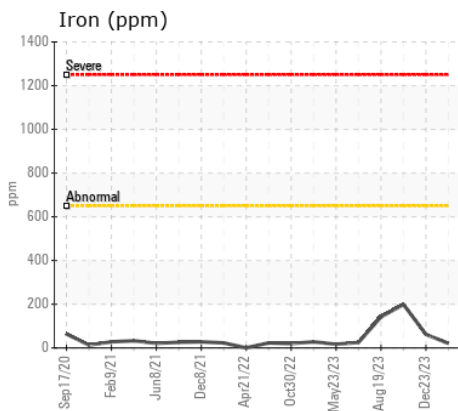
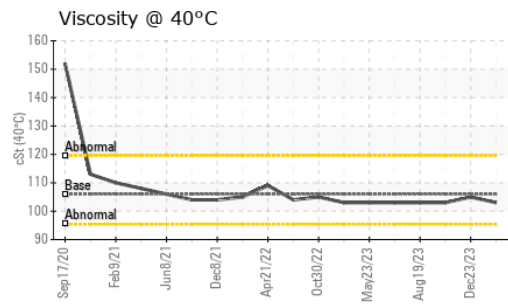
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>75	<b>1</b>	5	12
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>LIGHT</b>	VLITE	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>	NEG	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>1</b>	8	13
Boron	ppm	ASTM D5185(m)		<b>266</b>	190	129
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	<1	2
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	3
Magnesium	ppm	ASTM D5185(m)		<b>2</b>	3	6
Calcium	ppm	ASTM D5185(m)		<b>8</b>	15	27
Phosphorus	ppm	ASTM D5185(m)		<b>1395</b>	1338	1388
Zinc	ppm	ASTM D5185(m)		<b>12</b>	15	30
Sulfur	ppm	ASTM D5185(m)		<b>22301</b>	21461	23109
Visc @ 40°C	cSt	ASTM D7279(m)	106	<b>103</b>	105	103



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ARCELORMITTAL LONG PRODUITS CANADA  
**Sample No.** : LH0279327 **Received** : 16 Jan 2024 3185 ROUTE MARIE-VICTORIN  
**Lab Number** : 02609090 **Diagnosed** : 16 Jan 2024 CONTRECOEUR, QC  
**Unique Number** : 5710176 **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: