



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH80M 122402-1218
Component
Diesel Engine
Fluid
CHEVRON SUPREME MOTOR OIL 10W40 (42 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		LH0279320	LH0279416	LH0274208
Sample Date		Client Info		12 Jan 2024	23 Dec 2023	21 Oct 2023
Machine Age	hrs	Client Info		16208	9463	8989
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>100	43	4	5
Chromium	ppm	ASTM D5185(m)	>5	1	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	14	3	2
Lead	ppm	ASTM D5185(m)	>30	2	<1	<1
Copper	ppm	ASTM D5185(m)	>125	6	<1	2
Tin	ppm	ASTM D5185(m)	>5	<1	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

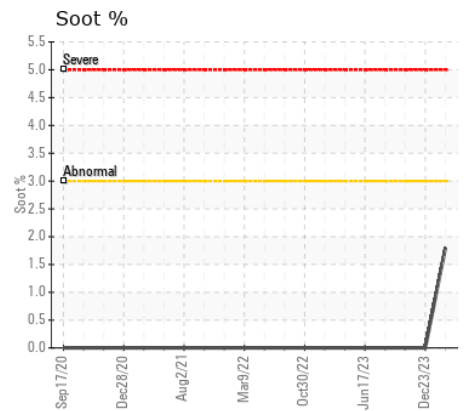
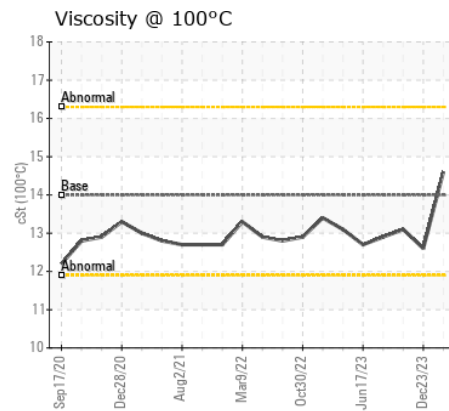
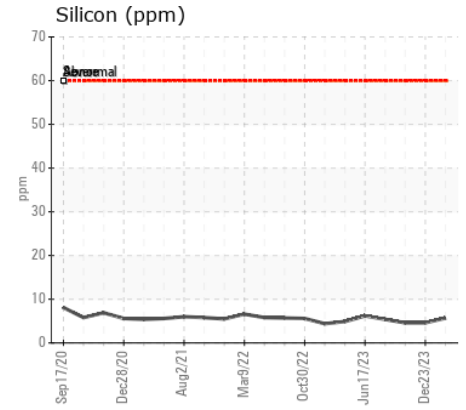
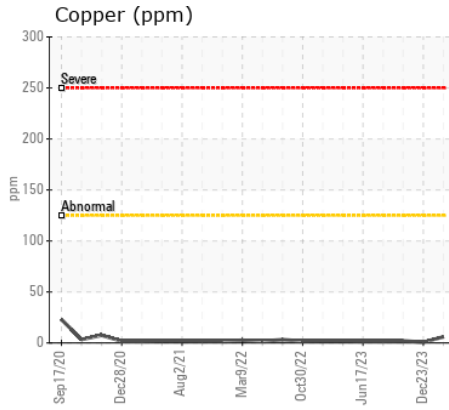
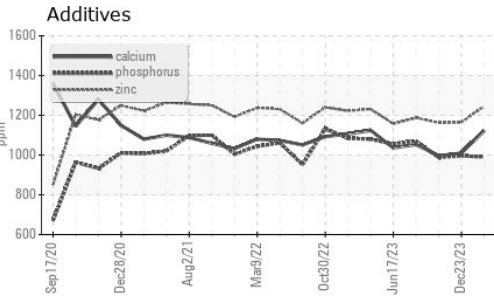
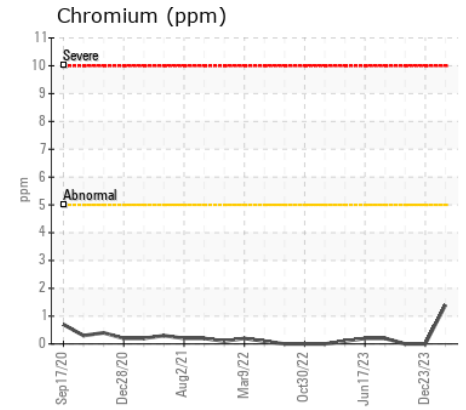
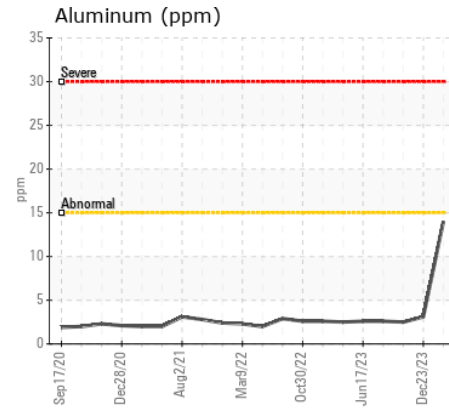
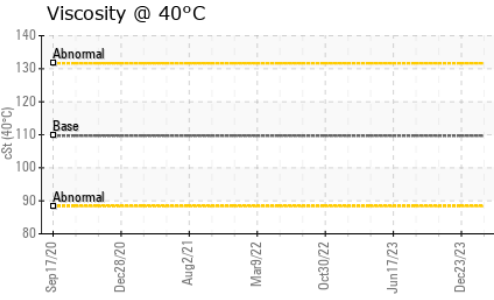
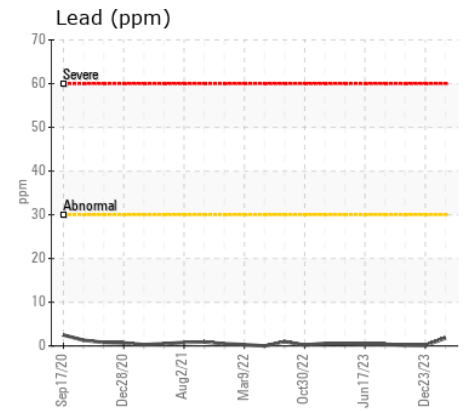
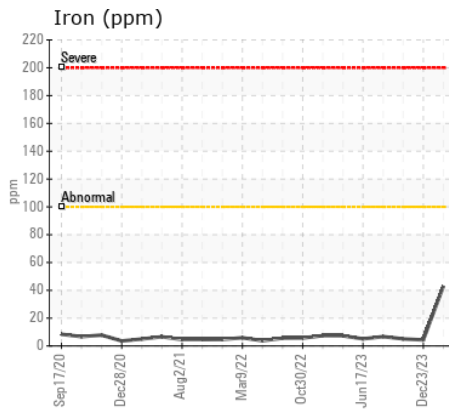
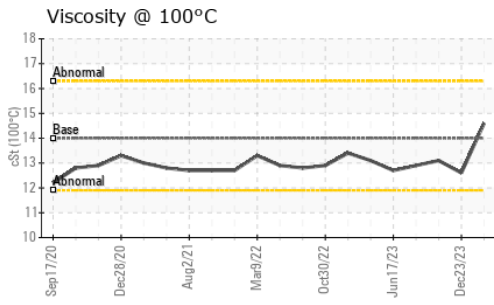
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>60	6	5	5
Potassium	ppm	ASTM D5185(m)	>20	<1	3	3
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.8	0	0
Nitration	Abs/cm	ASTM D7624*	>20	14.6	12.1	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	44.0	39.0	38.7
Emulsified Water	scalar	Visual*	>0.2	NEG	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)		1	<1	<1
Boron	ppm	ASTM D5185(m)		29	60	58
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		51	47	45
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		900	854	839
Calcium	ppm	ASTM D5185(m)		1122	1010	996
Phosphorus	ppm	ASTM D5185(m)	990	991	996	988
Zinc	ppm	ASTM D5185(m)	1100	1245	1164	1162
Sulfur	ppm	ASTM D5185(m)		2659	2646	2516
Oxidation	Abs/.1mm	ASTM D7414*	>25	46.6	47.9	46.2
Visc @ 40°C	cSt	ASTM D7279(m)	109.7	89.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.0	14.6	12.6	13.1
Viscosity Index (VI)	Scale	ASTM D2270*	146	169	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ARCELORMITTAL LONG PRODUITS CANADA
Sample No. : LH0279320 **Received** : 16 Jan 2024 3185 ROUTE MARIE-VICTORIN
Lab Number : 02609085 **Diagnosed** : 17 Jan 2024 CONTRECOEUR, QC
Unique Number : 5710171 **Diagnostician** : Kevin Marson CA J0L 1C0
Test Package : MOB 1 (Additional Tests: KV40, VI) Contact: Danny Drouin
 danny.drouin@arcelormittal.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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