



LIEBHERR

OIL ANALYSIS REPORT



Area
[590263]
 Machine Id
108395-1185
 Component
Diesel Engine
 Fluid
SAE 5W30 (20 LTR)

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

RECOMMENDATION

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		LH0277273	LH	LH0242904
Sample Date		Client Info		04 Jan 2024	20 Jun 2023	21 Dec 2022
Machine Age	hrs	Client Info		0	5938	5183
Oil Age	hrs	Client Info		0	2000	0
Filter Age	hrs	Client Info		0	2000	0
Oil Changed		Client Info		N/A	N/A	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	13	7	13
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	2	1	2
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>125	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

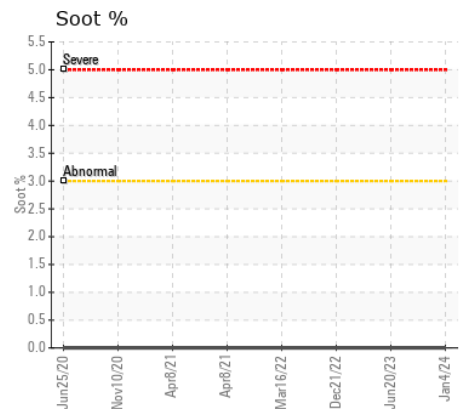
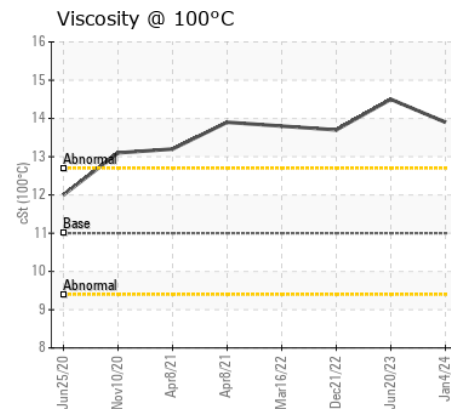
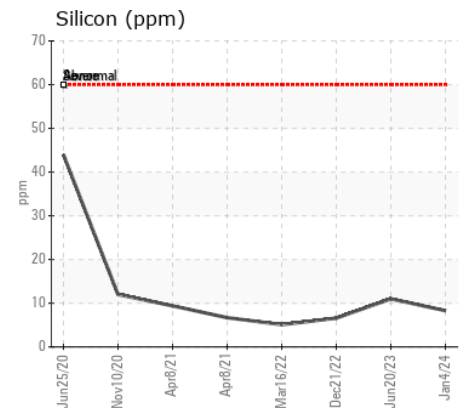
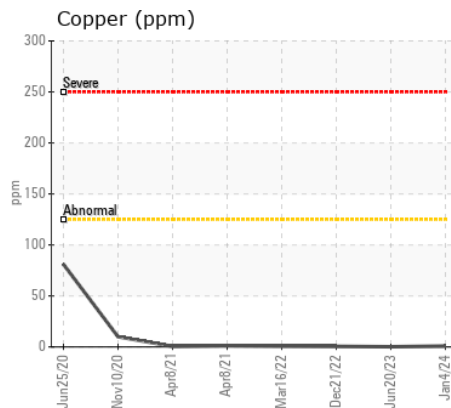
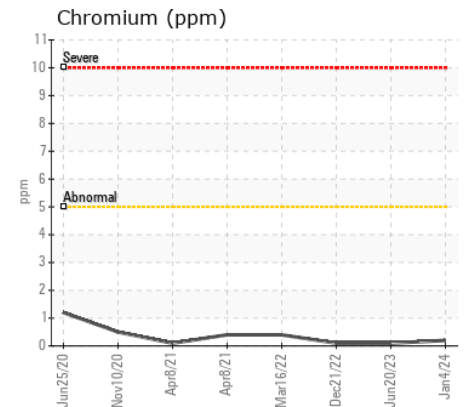
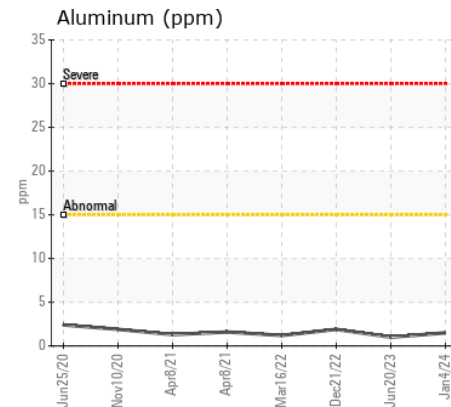
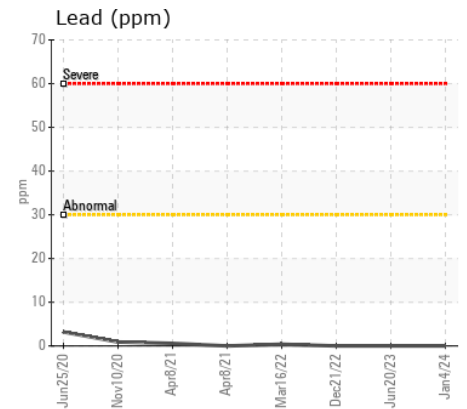
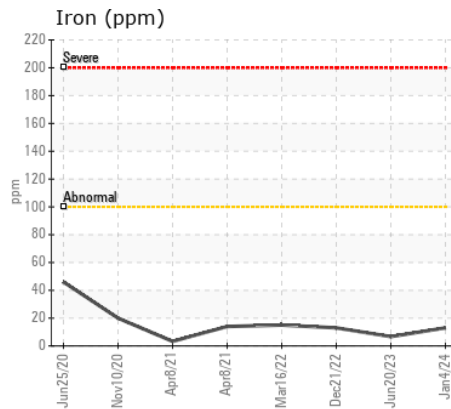
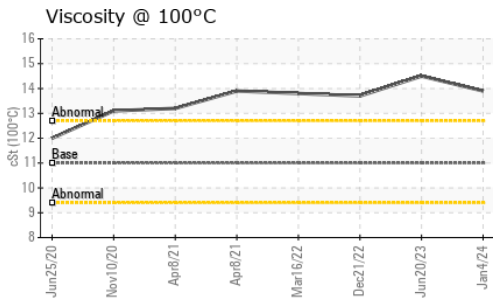
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>60	8	11	7
Potassium	ppm	ASTM D5185(m)	>20	2	<1	1
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	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.9	5.7	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	18.0	20.8
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

La viscosité de l'échantillon se situe dans la portée de l'SAE 40; nous vous conseillons de vérifier. L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		2	1	2
Boron	ppm	ASTM D5185(m)		<1	3	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		61	59	61
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		1003	977	1001
Calcium	ppm	ASTM D5185(m)		1125	1043	1253
Phosphorus	ppm	ASTM D5185(m)		1037	1094	1085
Zinc	ppm	ASTM D5185(m)		1245	1160	1261
Sulfur	ppm	ASTM D5185(m)		2760	2599	2595
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.7	13.8	16.4
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	13.9	14.5	13.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 756 - Quebec Lavoisier MRF
Sample No. : LH0277273 **Received** : 05 Jan 2024
Lab Number : 02606706 **Diagnosed** : 05 Jan 2024
Unique Number : 5707792 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Visual)

2244 rue Lavoisier
 Quebec, QC
 CA G1N 4H2
 Contact: Service Manager

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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F: