



LIEBHERR

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
108395-1185
Component
Swing Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH	LH0242903	LH0203342
Sample Date		Client Info		10 Jun 2024	21 Dec 2022	08 Apr 2021
Machine Age	hrs	Client Info		6899	5183	0
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				ABNORMAL	ABNORMAL	NORMAL

WEAR

Usure des engrenages. Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion.

PQ		ASTM D8184*		0	1	---
Iron	ppm	ASTM D5185(m)	>350	▲ 356	▲ 457	126
Chromium	ppm	ASTM D5185(m)	>15	2	5	1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>5	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>10	1	1	2
Copper	ppm	ASTM D5185(m)	>300	45	34	63
Tin	ppm	ASTM D5185(m)	>15	<1	1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

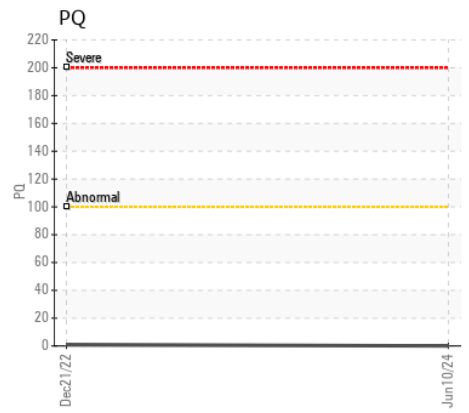
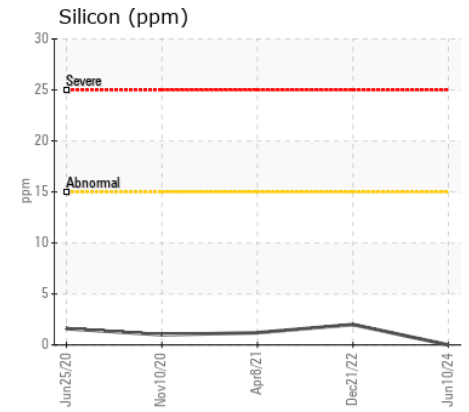
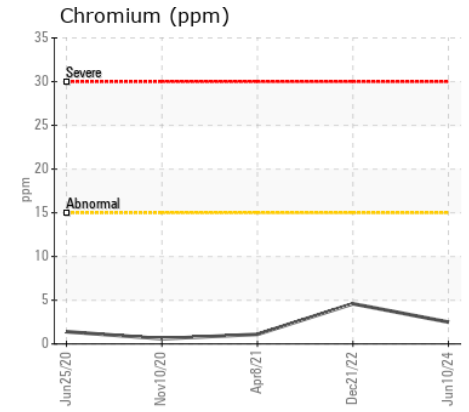
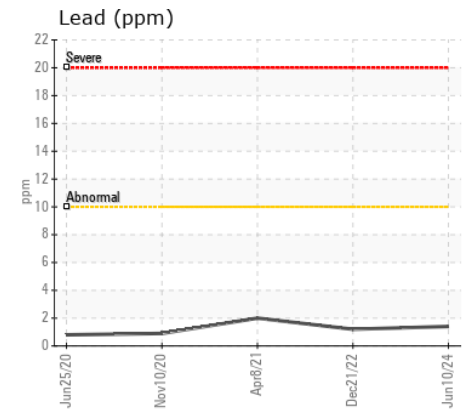
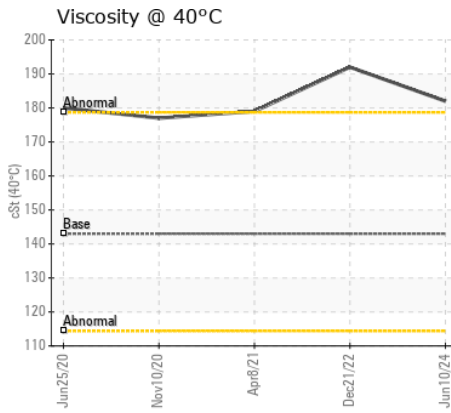
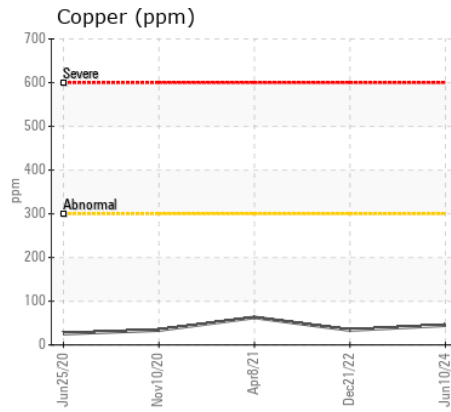
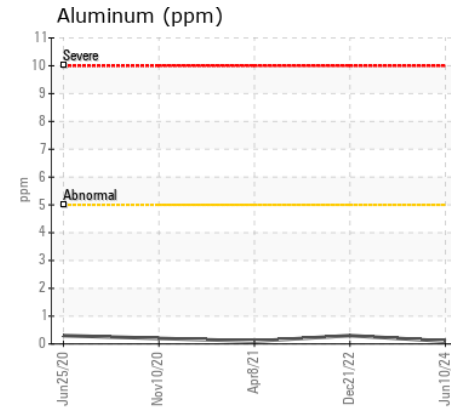
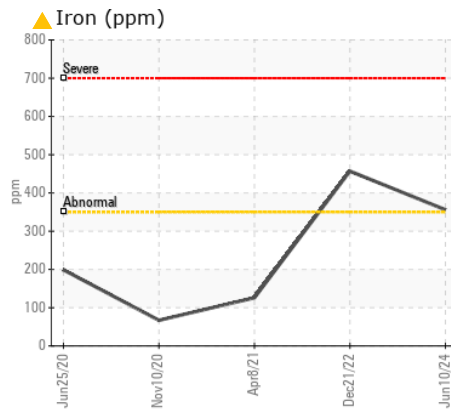
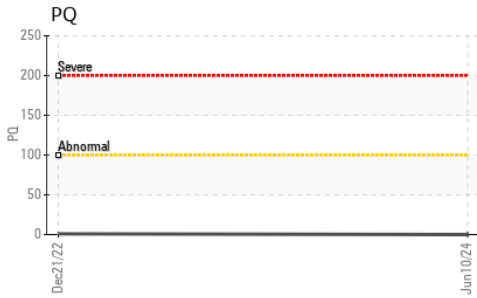
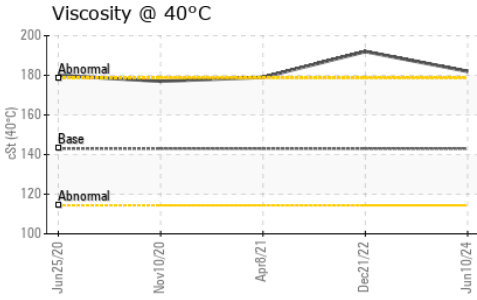
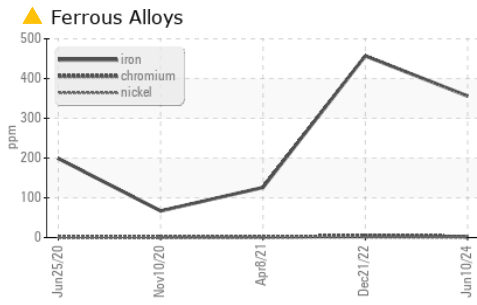
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>15	0	2	1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)	>170	1	4	3
Boron	ppm	ASTM D5185(m)	400	3	13	4
Barium	ppm	ASTM D5185(m)	200	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	12	0	<1	4
Manganese	ppm	ASTM D5185(m)		2	4	1
Magnesium	ppm	ASTM D5185(m)	12	9	4	58
Calcium	ppm	ASTM D5185(m)	150	17	16	61
Phosphorus	ppm	ASTM D5185(m)	1650	2033	2167	2354
Zinc	ppm	ASTM D5185(m)	125	26	27	77
Sulfur	ppm	ASTM D5185(m)	22500	24343	35126	24950
Visc @ 40°C	cSt	ASTM D7279(m)	143	182	192	179



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH
Lab Number : 02641272
Unique Number : 5798811
Test Package : MOB 1 (Additional Tests: PQ)

GFL Environmental - 756 - Quebec Lavoisier MRF
 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: