



LIEBHERR

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR R956 045534-1476
Component
Splitter Box
Fluid
LIEBHERR GEAR BASIC 90 LS (--- GAL)

RECOMMENDATION

Nous vous recommandons de vérifier la source de l'infiltration d'eau. 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	LH0235332	---
Sample Date		Client Info		13 May 2024	27 Sep 2022	---
Machine Age	hrs	Client Info		1830	1453	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				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*	>80	43	---	---
Iron	ppm	ASTM D5185(m)	>100	▲ 189	23	---
Chromium	ppm	ASTM D5185(m)	>5	2	0	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	4	2	---
Lead	ppm	ASTM D5185(m)	>30	0	0	---
Copper	ppm	ASTM D5185(m)	>20	1	1	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

Concentration modérée d'eau dans l'huile.

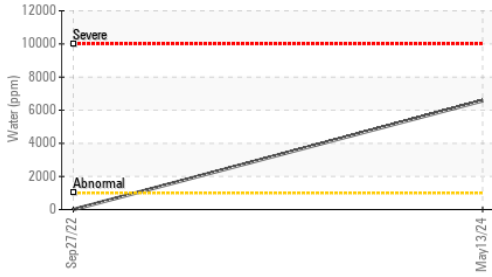
Silicon	ppm	ASTM D5185(m)	>30	26	1	---
Potassium	ppm	ASTM D5185(m)	>20	4	2	---
Water	%	ASTM D6304*	>0.1	▲ 0.657	---	---
ppm Water	ppm	ASTM D6304*	>1000	▲ 6571	---	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	▲ HAZY	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	▲ .2%	NEG	---

FLUID CONDITION

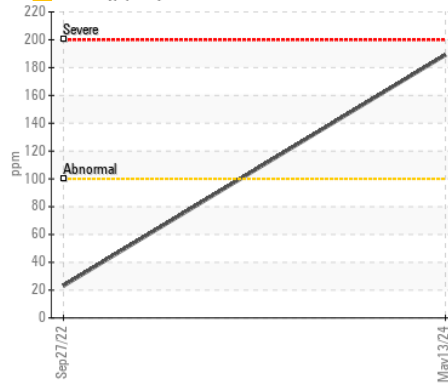
L'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)	>25	3	3	---
Boron	ppm	ASTM D5185(m)	0	4	2	---
Barium	ppm	ASTM D5185(m)	0	<1	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)	0	8	1	---
Magnesium	ppm	ASTM D5185(m)	<1	4	<1	---
Calcium	ppm	ASTM D5185(m)	<1	14	13	---
Phosphorus	ppm	ASTM D5185(m)	2143	1592	2242	---
Zinc	ppm	ASTM D5185(m)	<1	35	23	---
Sulfur	ppm	ASTM D5185(m)	23468	26978	30906	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	187	175	---

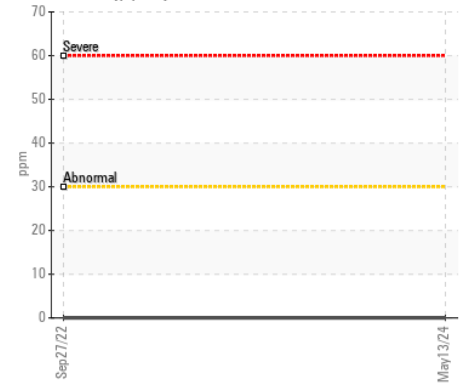
▲ Water (KF)



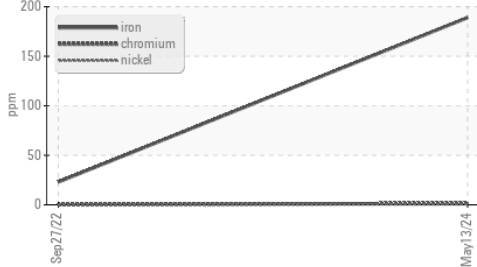
▲ Iron (ppm)



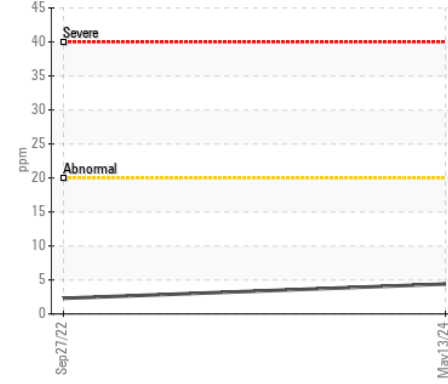
Lead (ppm)



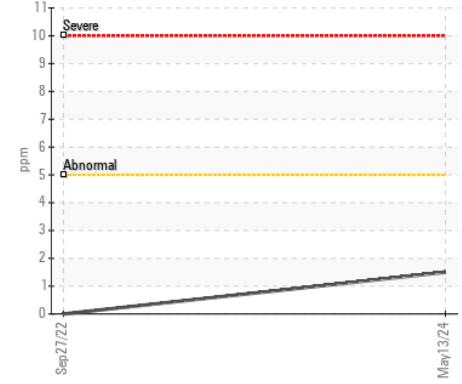
▲ Ferrous Alloys



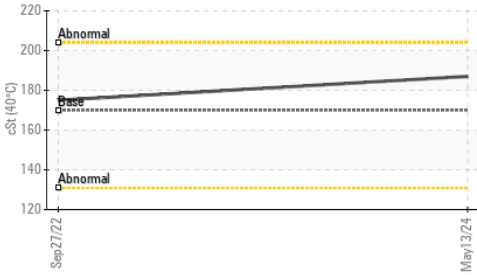
Aluminum (ppm)



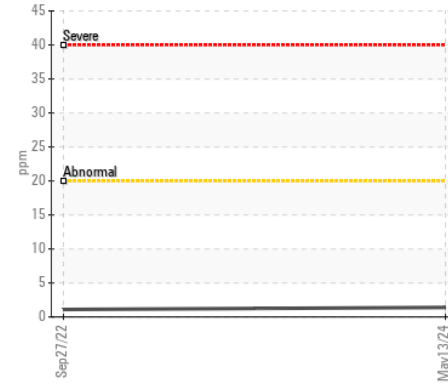
Chromium (ppm)



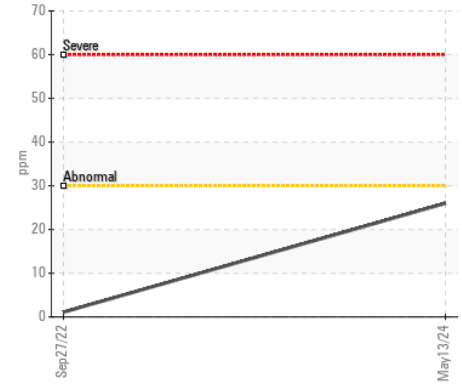
Viscosity @ 40°C



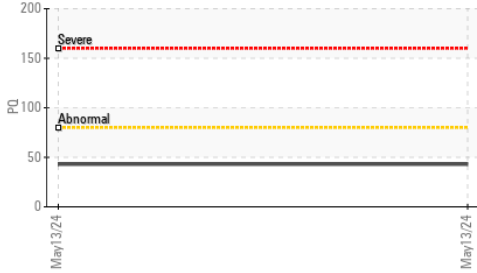
Copper (ppm)



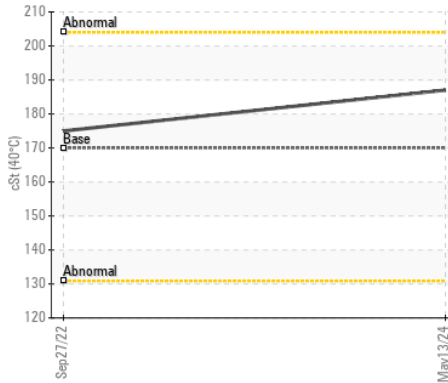
Silicon (ppm)



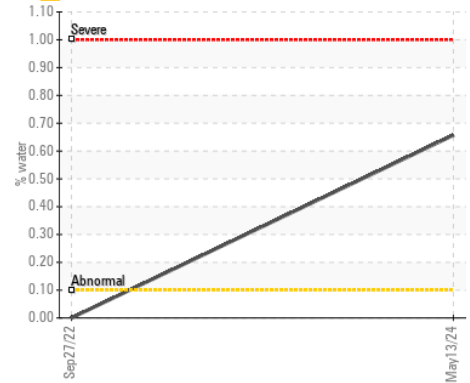
PQ



Viscosity @ 40°C



▲ Water



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH **Received** : 14 May 2024
Lab Number : 02635356 **Tested** : 15 May 2024
Unique Number : 5776509 **Diagnosed** : 15 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: KF, PQ)

Location Deric
 500 Rue Ressac, Batiment B
 Quebec, QC
 CA G1J 5L7
 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.

T:
F: