



LIEBHERR

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL

ATTENTION

NORMAL



Area
(350505)
Machine Id
LIEBHERR L566 063481-1758
Component
Hydraulic System
Fluid
LIEBHERR HYDRAULIC HVI (--- GAL)

RECOMMENDATION

Nous recommandons le remplacement des filtres de ce composant.
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		LH0202343	LH0202317	LH0202304
Sample Date		Client Info		09 Jan 2024	12 May 2023	06 Jan 2022
Machine Age	hrs	Client Info		3646	2312	1097
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Usure de palier et (ou) de douille.

Iron	ppm	ASTM D5185(m)	>20	18	15	10
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	8	6	4
Lead	ppm	ASTM D5185(m)	>10	▲ 13	▲ 11	8
Copper	ppm	ASTM D5185(m)	>75	4	4	2
Tin	ppm	ASTM D5185(m)	>10	<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

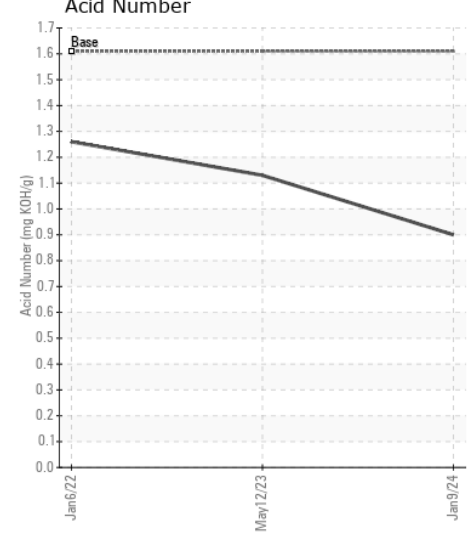
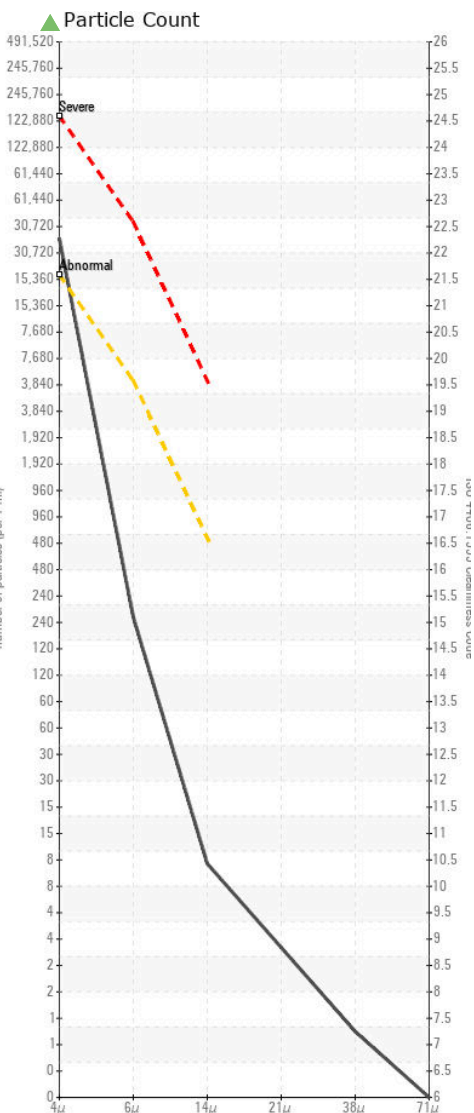
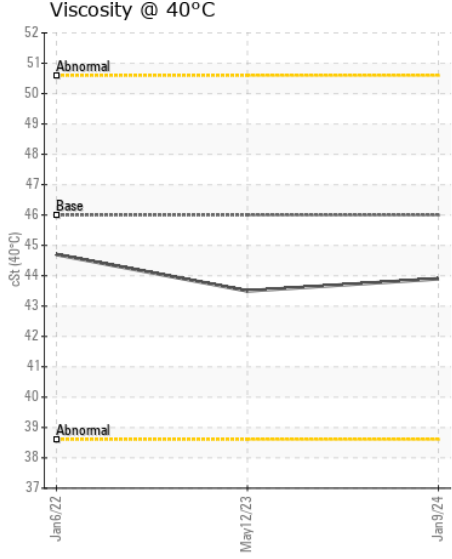
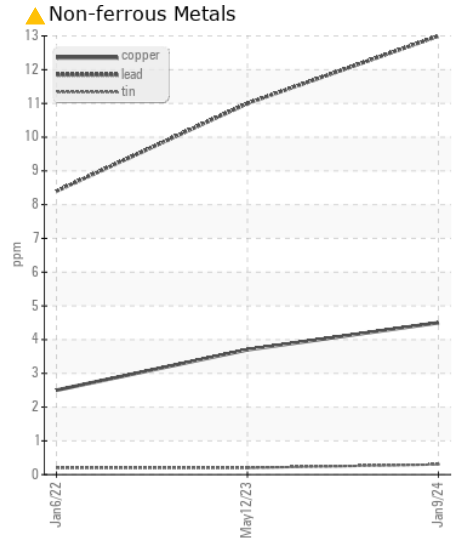
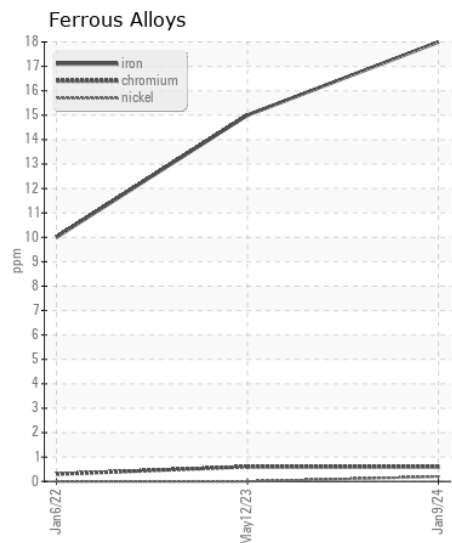
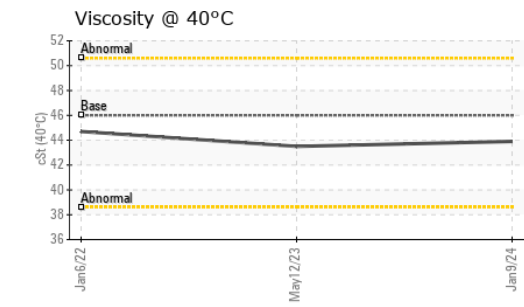
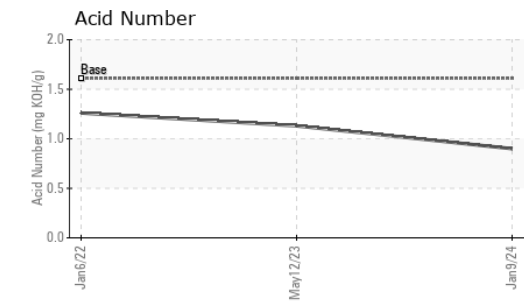
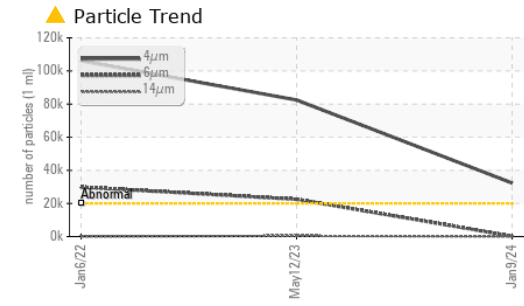
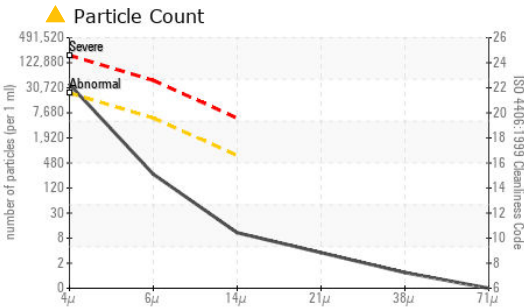
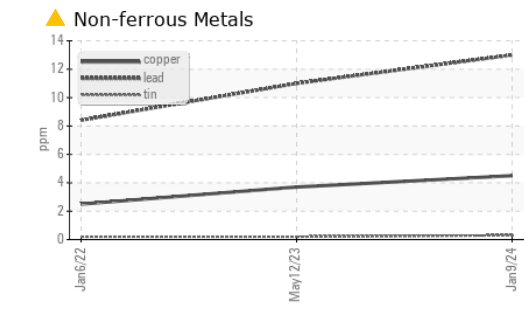
Il y a une légère quantité de limon (particules de 4 à 14 microns) dans l'huile.

Silicon	ppm	ASTM D5185(m)	>20	15	14	8
Potassium	ppm	ASTM D5185(m)	>20	5	4	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	▲ 32341	▲ 82450	▲ 106078
Particles >6µm		ASTM D7647	>5000	227	▲ 22527	▲ 29847
Particles >14µm		ASTM D7647	>640	9	399	88
Particles >21µm		ASTM D7647	>160	3	73	9
Particles >38µm		ASTM D7647	>40	1	3	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/15/10	▲ 24/22/16	▲ 24/22/14
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	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*	>0.1	NEG	NEG	NEG

FLUID CONDITION

Le AN est acceptable pour ce fluide. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		2	4	2
Boron	ppm	ASTM D5185(m)	0	<1	<1	<1
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	<1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	7	7	7	6
Calcium	ppm	ASTM D5185(m)	1317	1394	1390	1383
Phosphorus	ppm	ASTM D5185(m)	611	572	651	623
Zinc	ppm	ASTM D5185(m)	696	676	695	684
Sulfur	ppm	ASTM D5185(m)	2574	3545	3589	3490
Acid Number (AN)	mg KOH/g	ASTM D974*	1.61	0.90	1.13	1.26
Visc @ 40°C	cSt	ASTM D7279(m)	46	43.9	43.5	44.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0202343 **Received** : 10 Jan 2024
Lab Number : 02607872 **Diagnosed** : 12 Jan 2024
Unique Number : 5708958 **Diagnostician** : Kevin Marson
Test Package : MOBCE

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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