



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id  
**LIEBHERR L550 053138-1214**

Component  
**Hydraulic System**

Fluid  
**PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (--- GAL)**

### RECOMMENDATION

Nous recommandons le remplacement des filtres de ce composant. Confirm the source of the lubricant being utilized for top-up/fill. 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		<b>LH0279512</b>	LH0261130	LH0270022
Sample Date		Client Info		<b>29 Dec 2023</b>	24 Nov 2023	24 Aug 2023
Machine Age	hrs	Client Info		<b>18557</b>	18557	18035
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	ATTENTION

### WEAR

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

Iron	ppm	ASTM D5185(m)	>20	<b>7</b>	7	5
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>10	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>10	<b>2</b>	2	2
Copper	ppm	ASTM D5185(m)	>75	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

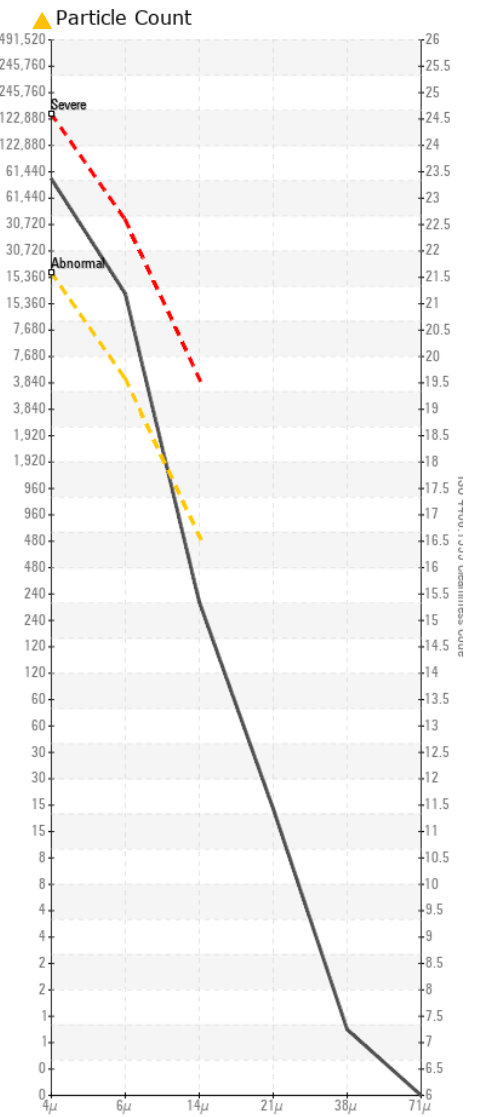
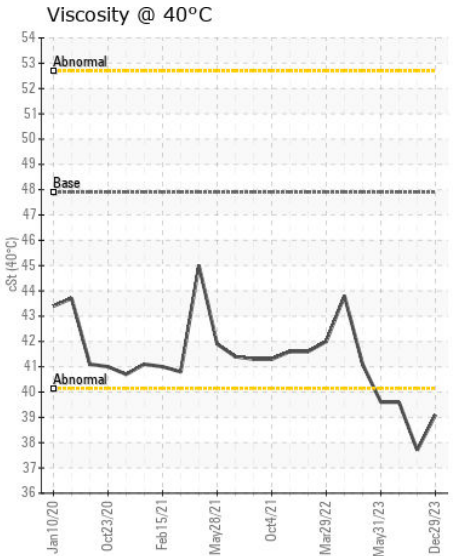
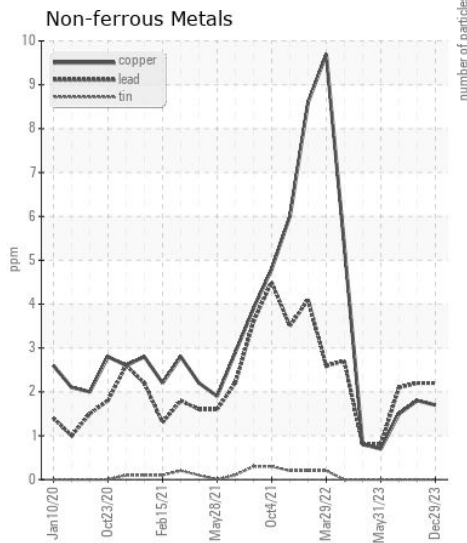
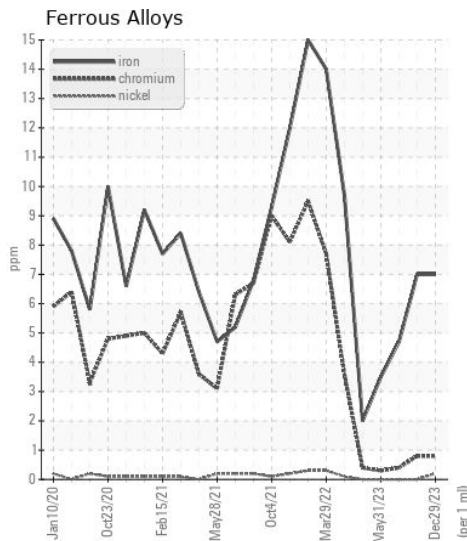
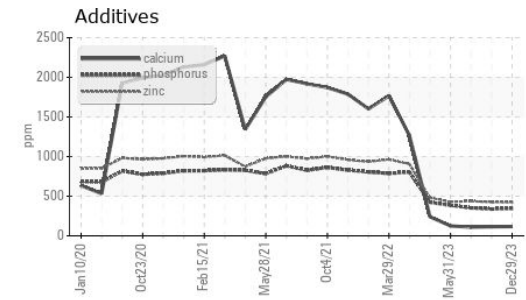
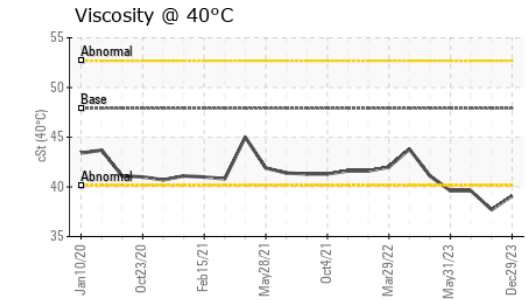
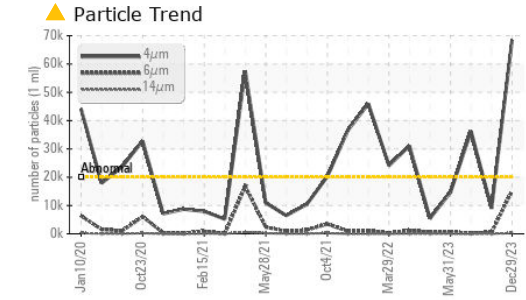
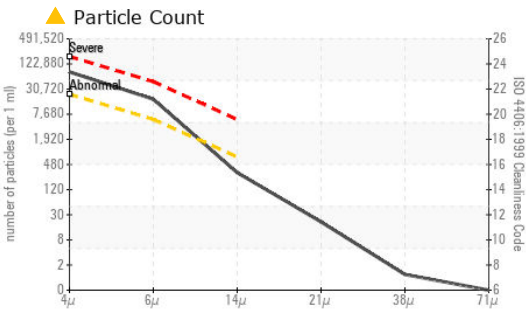
Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile.

Silicon	ppm	ASTM D5185(m)	>20	<b>2</b>	1	1
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>▲ 68425</b>	9000	▲ 36262
Particles >6µm		ASTM D7647	>5000	<b>▲ 15247</b>	461	331
Particles >14µm		ASTM D7647	>640	<b>270</b>	19	8
Particles >21µm		ASTM D7647	>160	<b>18</b>	4	3
Particles >38µm		ASTM D7647	>40	<b>1</b>	1	1
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>▲ 23/21/15</b>	20/16/11	▲ 22/16/10
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. L'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	100	<b>117</b>	115	110
Phosphorus	ppm	ASTM D5185(m)	670	<b>344</b>	337	352
Zinc	ppm	ASTM D5185(m)	850	<b>423</b>	424	437
Sulfur	ppm	ASTM D5185(m)	1600	<b>1071</b>	1017	945
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	<b>39.1</b>	37.7	39.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0279512 **Received** : 08 Jan 2024  
**Lab Number** : 02607152 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 5708238 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

**GDS VALORIBOIS INC.**  
 80 RUE DU PARC INDUSTRIEL  
 MATANE, QC  
 CA G4W 2P6  
 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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