



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**(340290)**  
Machine Id  
**LIEBHERR L586 059132-1334**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (100 LTR)**

### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.  
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		<b>LH</b>	LH	LH0249897
Sample Date		Client Info		<b>10 Jan 2024</b>	06 Nov 2023	12 Jul 2023
Machine Age	hrs	Client Info		<b>0</b>	17000	15582
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>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

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

Iron	ppm	ASTM D5185(m)	>50	<b>42</b>	31	▲ 64
Chromium	ppm	ASTM D5185(m)	>5	<b>5</b>	4	5
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>5	<b>1</b>	1	<1
Lead	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185(m)	>10	<b>1</b>	1	2
Tin	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

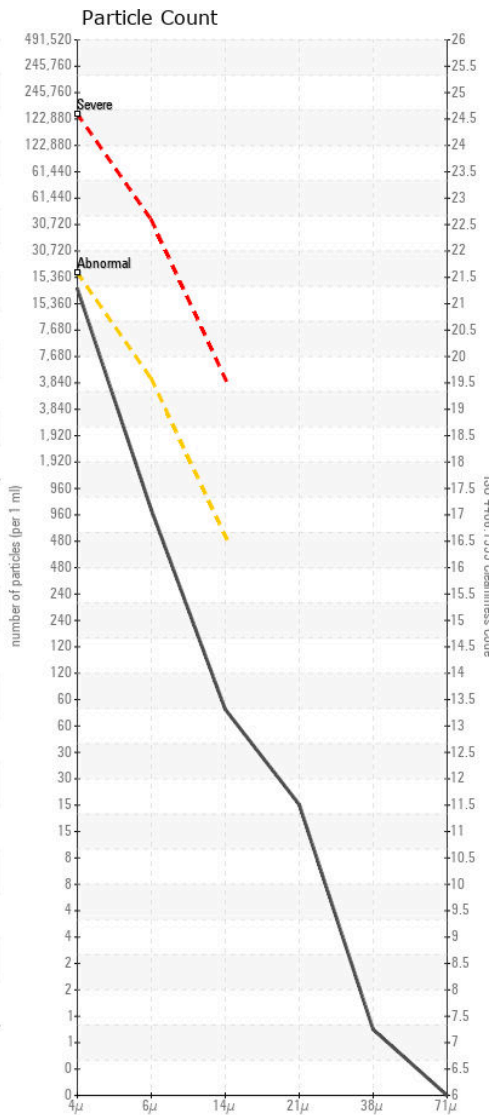
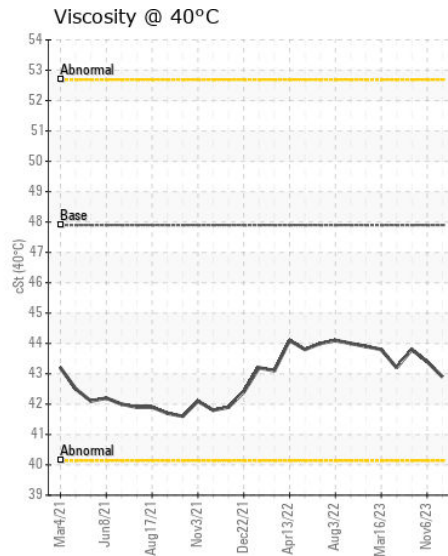
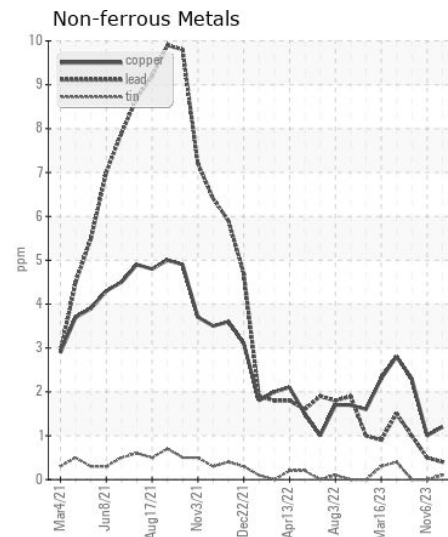
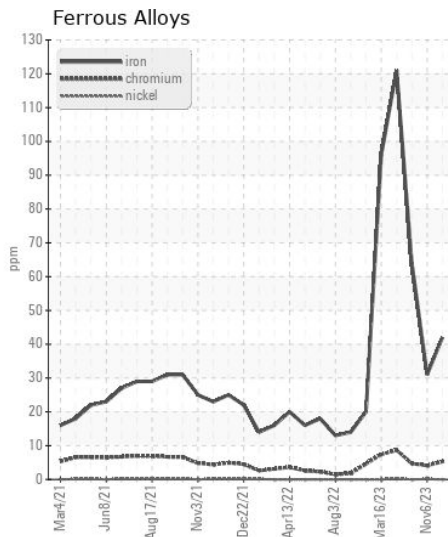
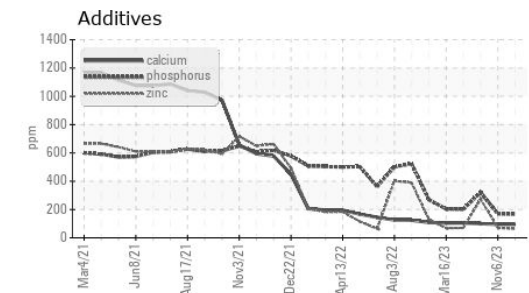
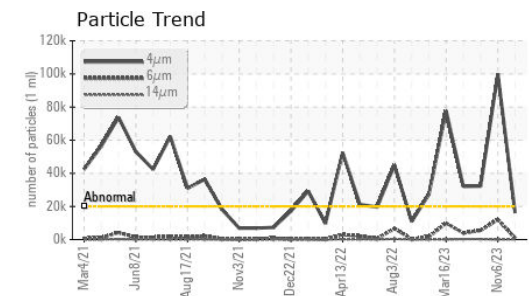
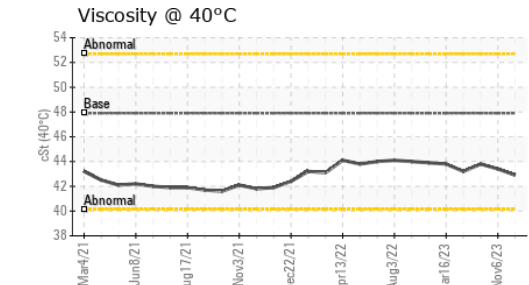
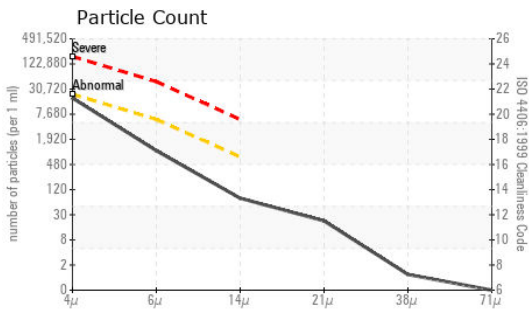
La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable.

Silicon	ppm	ASTM D5185(m)	>15	<b>3</b>	3	2
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	1	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>16272</b>	▲ 99966	▲ 32269
Particles >6µm		ASTM D7647	>5000	<b>901</b>	▲ 12120	▲ 5533
Particles >14µm		ASTM D7647	>640	<b>66</b>	7	281
Particles >21µm		ASTM D7647	>160	<b>19</b>	2	65
Particles >38µm		ASTM D7647	>40	<b>1</b>	0	3
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>21/17/13</b>	▲ 24/21/10	▲ 22/20/15
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	▲ LIGHT
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'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	0	<b>1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	100	<b>96</b>	95	100
Phosphorus	ppm	ASTM D5185(m)	670	<b>168</b>	170	321
Zinc	ppm	ASTM D5185(m)	850	<b>63</b>	70	273
Sulfur	ppm	ASTM D5185(m)	1600	<b>642</b>	624	855
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	<b>42.9</b>	43.4	43.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH  
**Lab Number** : 02609435  
**Unique Number** : 5710521  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

**NEXOLIA, CHAPAIS ENERGIE SEC**  
 140 RUE DE LA CONGENERATION  
 CHAPAIS, QC  
 CA G0W 1H0  
 Contact: Carl Adams

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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