



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH50M 145793-1216

Component
Hydraulic System

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

RECOMMENDATION

Nous vous recommandons de vérifier la source de l'infiltration d'eau. Nous vous recommandons de suivre la procédure de vidange d'eau 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		LH	LH	LH
Sample Date		Client Info		16 Jan 2024	19 Dec 2023	30 Nov 2023
Machine Age	hrs	Client Info		6000	5500	5000
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Changed	Cleaned	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>50	8	7	13
Chromium	ppm	ASTM D5185(m)	>5	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>2	1	1	1
Lead	ppm	ASTM D5185(m)	>4	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>10	2	2	3
Tin	ppm	ASTM D5185(m)	>2	0	0	0
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

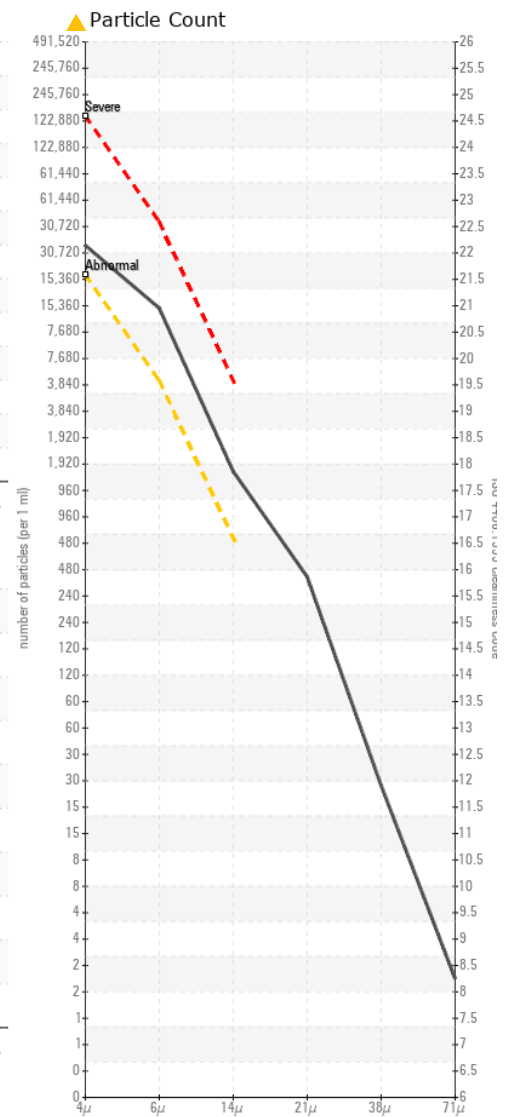
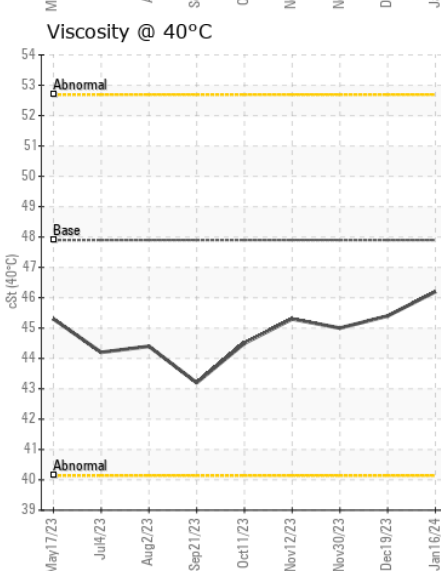
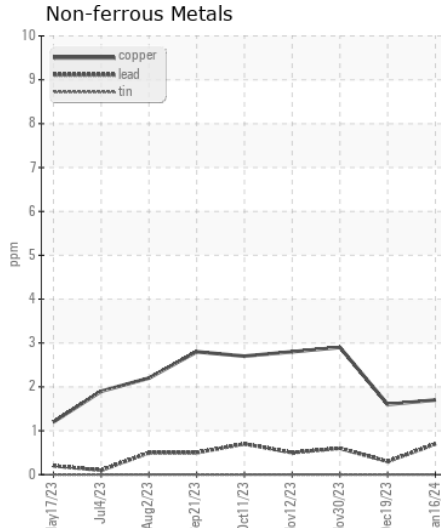
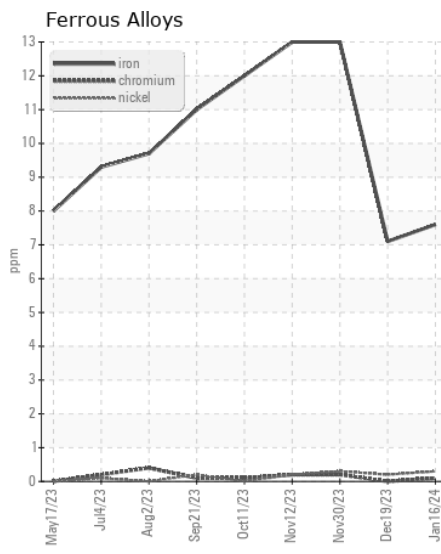
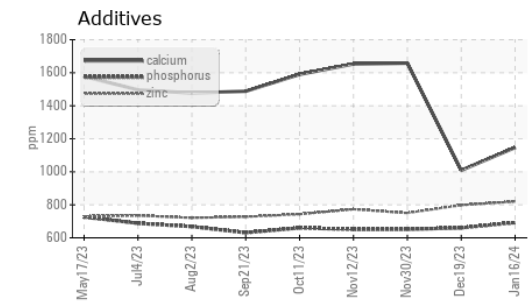
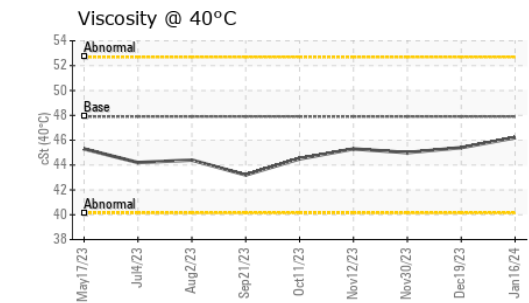
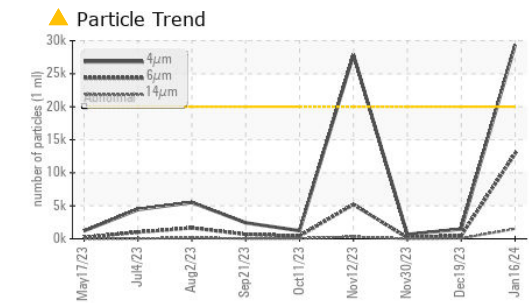
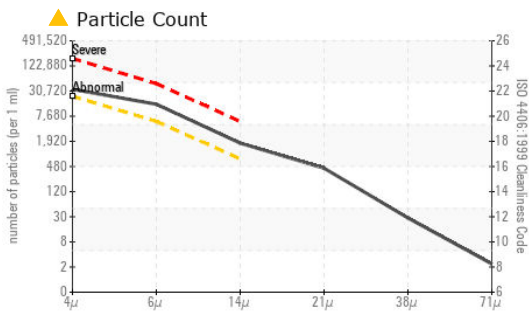
Il y a une quantité modérée de matières particulaires (2 à 100 µm de taille) présente dans l'huile. Présence d'eau libre.

Silicon	ppm	ASTM D5185(m)	>17	3	3	5
Potassium	ppm	ASTM D5185(m)	>20	0	1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	▲ 29346	1478	661
Particles >6µm		ASTM D7647	>5000	▲ 12914	480	173
Particles >14µm		ASTM D7647	>640	▲ 1525	63	10
Particles >21µm		ASTM D7647	>160	▲ 384	23	3
Particles >38µm		ASTM D7647	>40	25	3	1
Particles >71µm		ASTM D7647	>10	2	0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 22/21/18	18/16/13	17/15/10
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	▲ WGOIL	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	.2%	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)		1	1	2
Boron	ppm	ASTM D5185(m)	0	<1	<1	<1
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	1	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	4	4	5
Calcium	ppm	ASTM D5185(m)	100	1147	1009	1658
Phosphorus	ppm	ASTM D5185(m)	670	692	660	652
Zinc	ppm	ASTM D5185(m)	850	820	798	750
Sulfur	ppm	ASTM D5185(m)	1600	2835	2753	3542
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	46.2	45.4	45.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH **Received** : 19 Jan 2024
Lab Number : 02609993 **Diagnosed** : 22 Jan 2024
Unique Number : 5711079 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: PrtCount)

PF Resolu Canada Inc.
 5850 avenue des jardins
 La Dore, QC
 CA G8J 1B4
 Contact: Dominic Caron

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: