



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L566 038599

Component
Hydraulic System

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

RECOMMENDATION

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		LH	LH	LH0140658
Sample Date		Client Info		11 Jan 2024	10 Nov 2023	13 Mar 2020
Machine Age	hrs	Client Info		10222	10436	5233
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 Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	SEVERE	ABNORMAL

WEAR

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

Iron	ppm	ASTM D5185(m)	>20	5	21	16
Chromium	ppm	ASTM D5185(m)	>10	<1	2	3
Nickel	ppm	ASTM D5185(m)	>10	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>10	<1	2	<1
Lead	ppm	ASTM D5185(m)	>10	<1	1	1
Copper	ppm	ASTM D5185(m)	>75	2	3	3
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	MODER	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

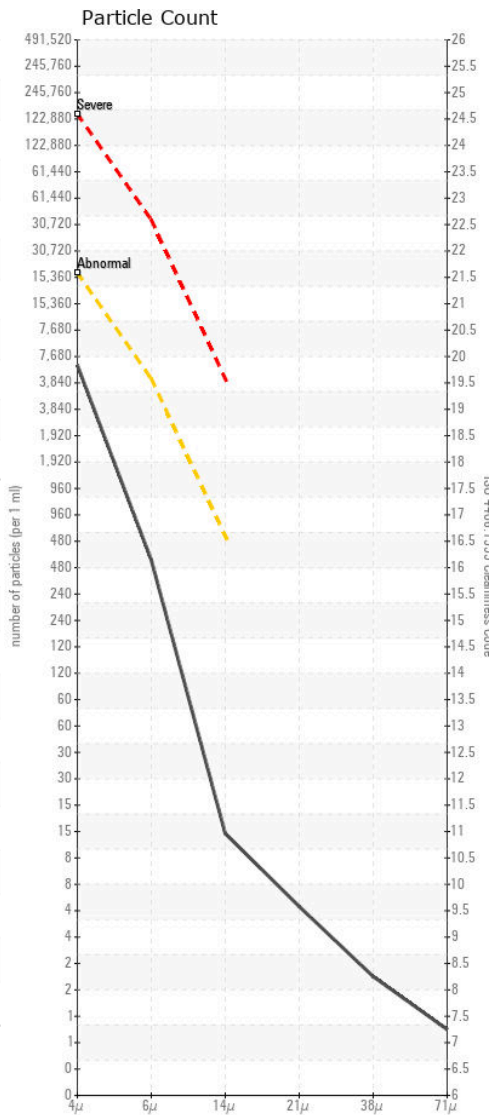
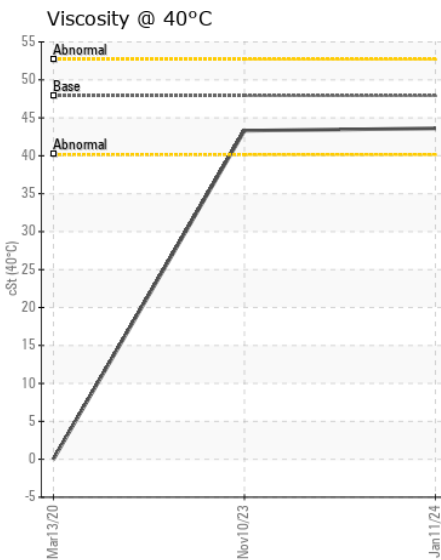
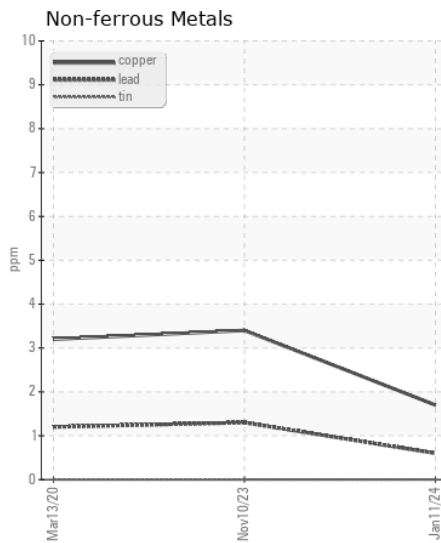
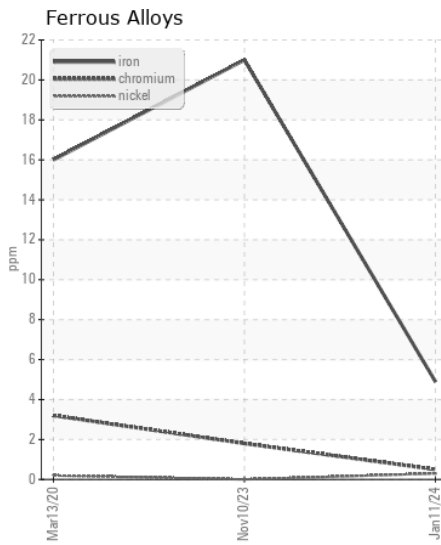
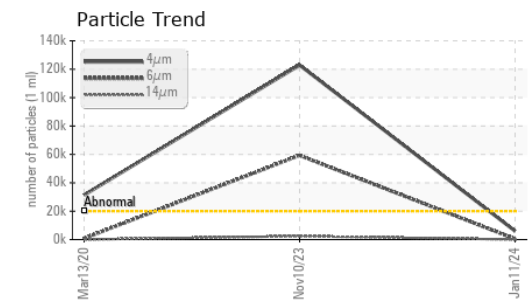
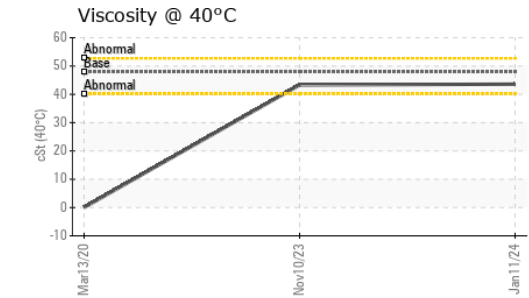
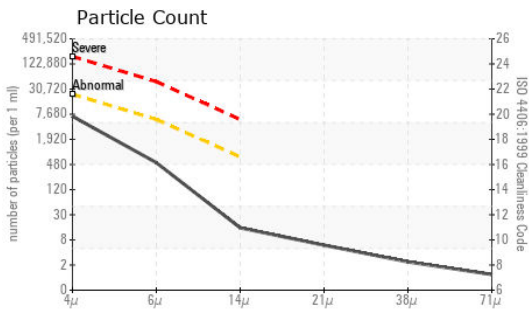
La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable.

Silicon	ppm	ASTM D5185(m)	>20	1	5	2
Potassium	ppm	ASTM D5185(m)	>20	12	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	5979	122879	31371
Particles >6µm		ASTM D7647	>5000	466	59309	792
Particles >14µm		ASTM D7647	>640	13	2427	27
Particles >21µm		ASTM D7647	>160	5	450	11
Particles >38µm		ASTM D7647	>40	2	20	0
Particles >71µm		ASTM D7647	>10	1	1	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/16/11	24/23/18	22/17/12
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	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

L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		<1	2	1
Boron	ppm	ASTM D5185(m)	0	1	4	8
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	28	93	6
Manganese	ppm	ASTM D5185(m)	1	0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	20	33	65
Calcium	ppm	ASTM D5185(m)	100	140	198	334
Phosphorus	ppm	ASTM D5185(m)	670	554	466	549
Zinc	ppm	ASTM D5185(m)	850	669	512	681
Sulfur	ppm	ASTM D5185(m)	1600	1595	1562	2102
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	43.6	43.3	0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 COMPAGNIE COMMONWEALTH PLYWOOD LTEE
Sample No. : LH **Received** : 12 Jan 2024 **300 RUE GODARD**
Lab Number : 02608551 **Diagnosed** : 16 Jan 2024 **MONT-LAURIER, QC**
Unique Number : 5709637 **Diagnostician** : Wes Davis **CA J9L 3W2**
Test Package : MOB 1 (Additional Tests: PrtCount) **Contact: MARTIN ST-PIERRE**

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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