



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL



Machine Id
062579-1007
Component
Hydraulic System
Fluid

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (20 LTR)

RECOMMENDATION

Confirmez la source du lubrifiant utilisé pour l'appoint/remplissage. Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Le fluide était spécifié comme PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL, toutefois, une comparaison avec d'autres fluides indiqua que ce fluide est du ISO 32 AW Hydraulic Oil. Veuillez confirmer la viscosité de l'huile et veuillez préciser la marque de votre prochain échantillon.

WEAR

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

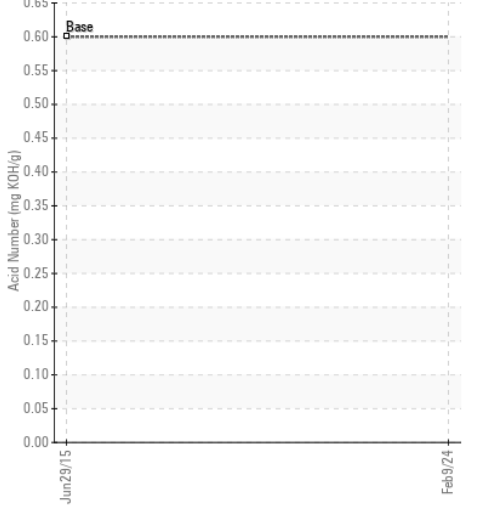
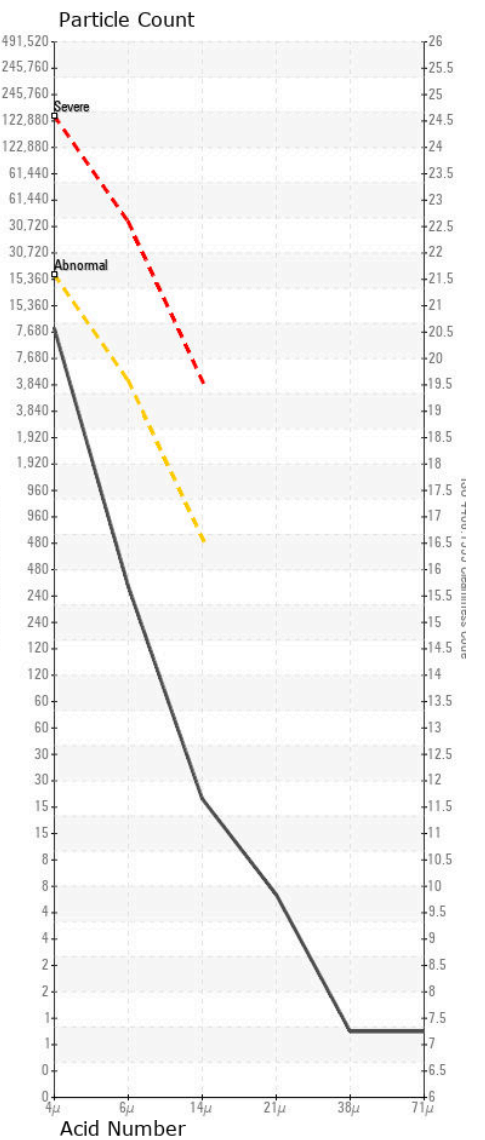
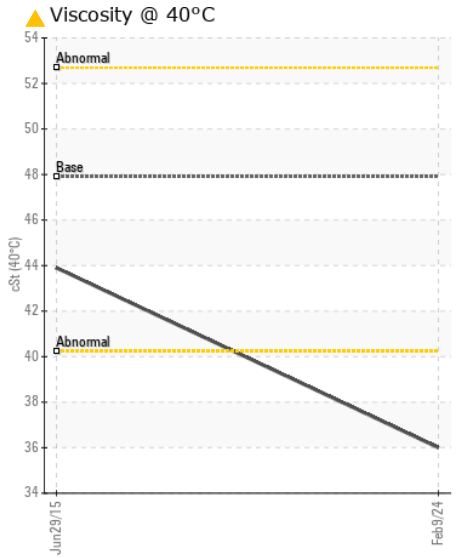
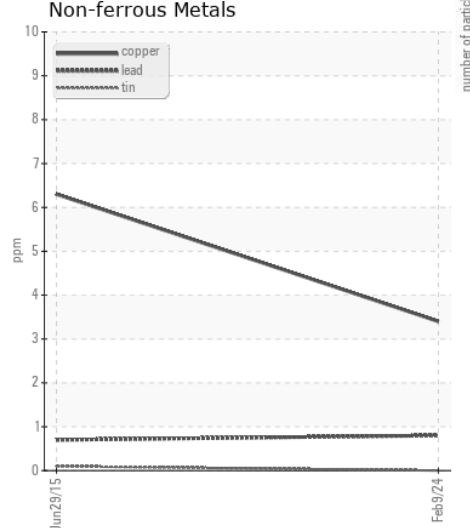
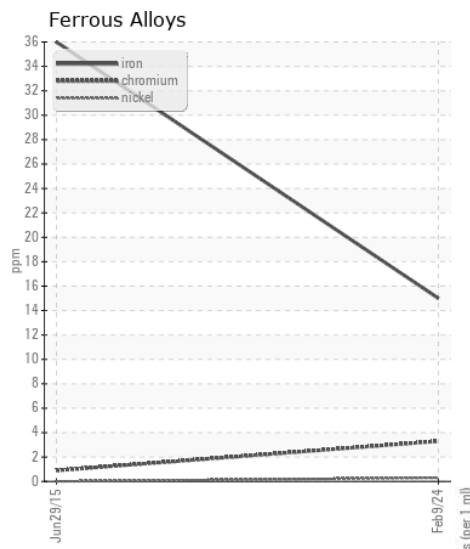
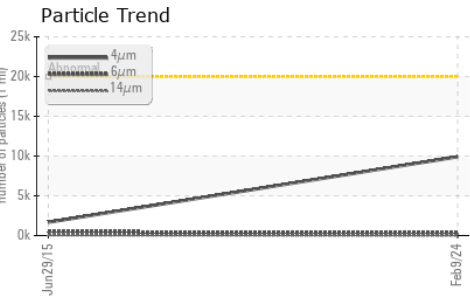
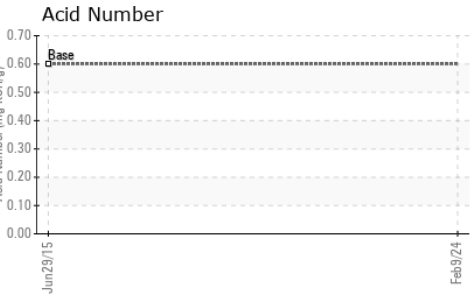
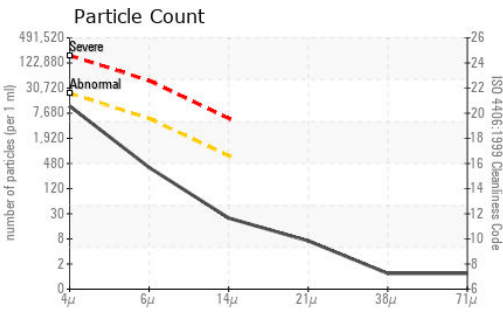
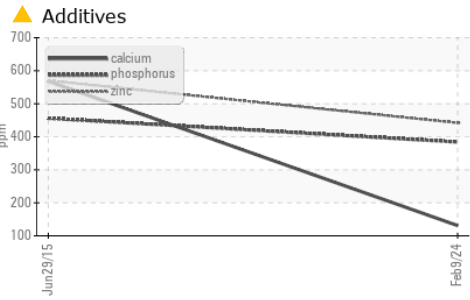
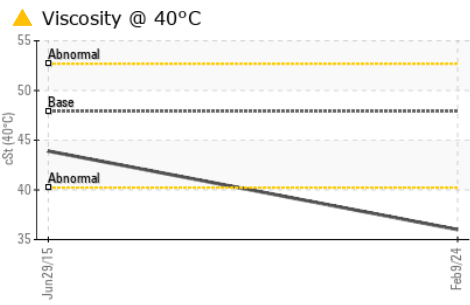
CONTAMINATION

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

FLUID CONDITION

La viscosité de l'échantillon se situe dans la portée de l'ISO 32; nous vous conseillons de vérifier. Ceci, en plus des niveaux d'additifs, indique que la marque ou le type d'huile ne correspond pas à ce qui a été signalé. Le AN est acceptable pour ce fluide. L'état de l'huile permet d'en prolonger l'utilisation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH	LH0084061	---
Sample Date		Client Info		09 Feb 2024	29 Jun 2015	---
Machine Age	hrs	Client Info		0	6070	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Not Changed	---
Filter Changed		Client Info		Changed	Not Changed	---
Sample Status				ABNORMAL	ABNORMAL	---
<hr/>						
Iron	ppm	ASTM D5185(m)	>50	15	▲ 36	---
Chromium	ppm	ASTM D5185(m)	>5	3	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>2	<1	<1	---
Lead	ppm	ASTM D5185(m)	>4	<1	<1	---
Copper	ppm	ASTM D5185(m)	>10	3	6	---
Tin	ppm	ASTM D5185(m)	>2	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
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Silicon	ppm	ASTM D5185(m)	>17	1	2	---
Potassium	ppm	ASTM D5185(m)	>20	1	0	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>20000	9916	1676	---
Particles >6µm		ASTM D7647	>5000	339	471	---
Particles >14µm		ASTM D7647	>640	21	48	---
Particles >21µm		ASTM D7647	>160	6	16	---
Particles >38µm		ASTM D7647	>40	1	2	---
Particles >71µm		ASTM D7647	>10	1	0	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/16/12	18/16/13	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---
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Sodium	ppm	ASTM D5185(m)		2	4	---
Boron	ppm	ASTM D5185(m)	0	2	<1	---
Barium	ppm	ASTM D5185(m)	0	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	2	0	---
Manganese	ppm	ASTM D5185(m)	1	0	<1	---
Magnesium	ppm	ASTM D5185(m)	0	▲ 28	4	---
Calcium	ppm	ASTM D5185(m)	100	131	568	---
Phosphorus	ppm	ASTM D5185(m)	670	▲ 384	456	---
Zinc	ppm	ASTM D5185(m)	850	▲ 442	570	---
Sulfur	ppm	ASTM D5185(m)	1600	▲ 1121	2225	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	0.38	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	▲ 36.0	43.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH
Lab Number : 02618043
Unique Number : 5735153
Test Package : IND 2
Received : 26 Feb 2024
Tested : 28 Feb 2024
Diagnosed : 28 Feb 2024 - Kevin Marson

American Iron and Metal
 251 CHEMIN DES ILES
 LEVIS, QC
 CA G6V 1M5
 Contact: Bobby Rochette

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.

T: (418)649-1000
 F: