



OIL ANALYSIS REPORT

Sample Rating Trend

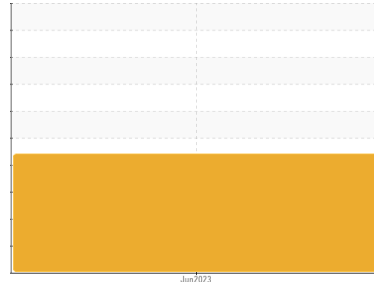
ISO



Machine Id
426132

Component
Hydraulic System

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



DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier tous les endroits par lesquels des contaminants peuvent pénétrer dans le système. Nous vous recommandons de remplacer le filtre et d'utiliser un système de filtrage hors-ligne afin d'améliorer la propreté du fluide. Le reniflard d'air doit être réparé. S'il n'est pas classé, nous vous recommandons de le remplacer par un reniflard à air adapté au micron et / ou au dessiccant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

Wear

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

Contamination

Il y a une quantité élevée de matières particulaires (2 à 100 µm de taille) présente dans l'huile.

Fluid Condition

Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. La viscosité de l'huile est inférieure à la viscosité type, ce qui pourrait indiquer l'ajout d'un grade d'huile plus léger. L'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	GFL0084413	---	---
Sample Date	Client Info	29 Jun 2023	---	---
Machine Age	kms Client Info	310528	---	---
Oil Age	kms Client Info	0	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		SEVERE	---	---

WEAR METALS

method	limit/base	current	history 1	history 2
PQ	ASTM D8184*	0	---	---
Iron	ppm ASTM D5185(m) >20	20	---	---
Chromium	ppm ASTM D5185(m) >10	2	---	---
Nickel	ppm ASTM D5185(m) >10	<1	---	---
Titanium	ppm ASTM D5185(m)	<1	---	---
Silver	ppm ASTM D5185(m)	1	---	---
Aluminum	ppm ASTM D5185(m) >10	2	---	---
Lead	ppm ASTM D5185(m) >10	<1	---	---
Copper	ppm ASTM D5185(m) >75	<1	---	---
Tin	ppm ASTM D5185(m) >10	0	---	---
Antimony	ppm ASTM D5185(m)	0	---	---
Vanadium	ppm ASTM D5185(m)	0	---	---
Beryllium	ppm ASTM D5185(m)	0	---	---
Cadmium	ppm ASTM D5185(m)	0	---	---

ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185(m) 0	22	---	---
Barium	ppm ASTM D5185(m) 0	0	---	---
Molybdenum	ppm ASTM D5185(m) 0	3	---	---
Manganese	ppm ASTM D5185(m) 1	<1	---	---
Magnesium	ppm ASTM D5185(m) 0	18	---	---
Calcium	ppm ASTM D5185(m) 100	2283	---	---
Phosphorus	ppm ASTM D5185(m) 670	842	---	---
Zinc	ppm ASTM D5185(m) 850	848	---	---
Sulfur	ppm ASTM D5185(m) 1600	4327	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

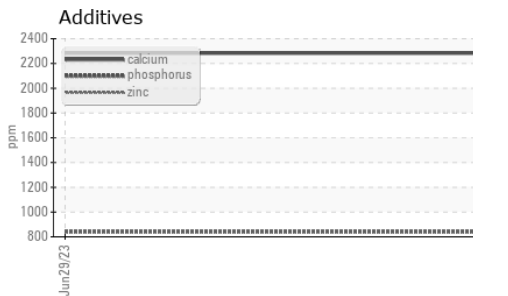
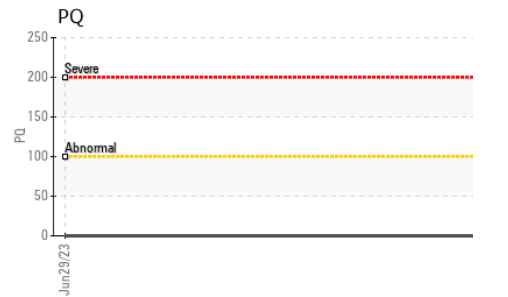
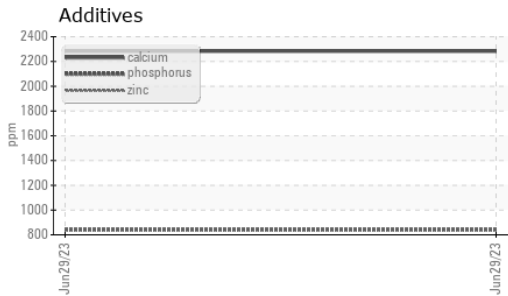
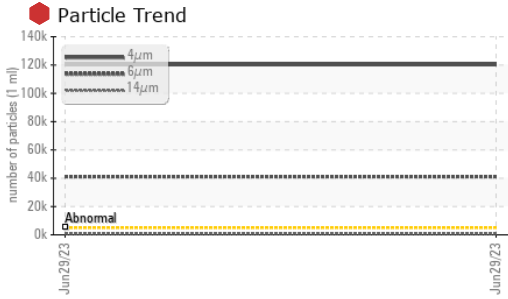
method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185(m) >20	8	---	---
Sodium	ppm ASTM D5185(m)	5	---	---
Potassium	ppm ASTM D5185(m) >20	2	---	---

FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647 >5000	120239	---	---
Particles >6µm	ASTM D7647 >1300	41116	---	---
Particles >14µm	ASTM D7647 >160	768	---	---
Particles >21µm	ASTM D7647 >40	110	---	---
Particles >38µm	ASTM D7647 >10	4	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	24/23/17	---	---



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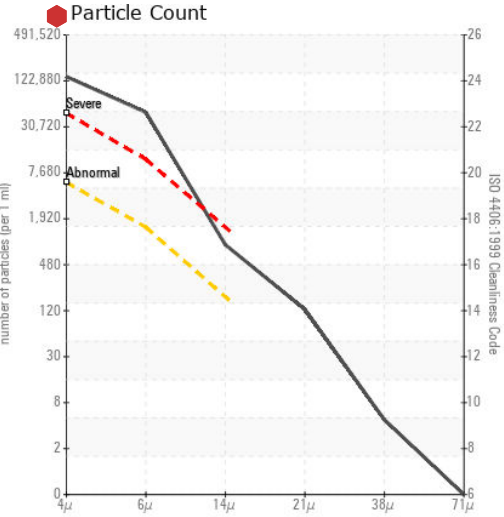
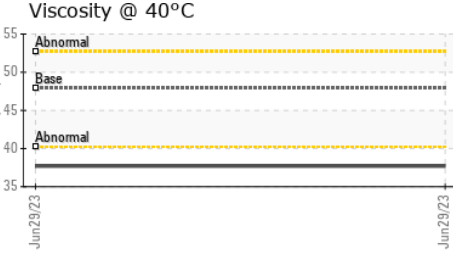
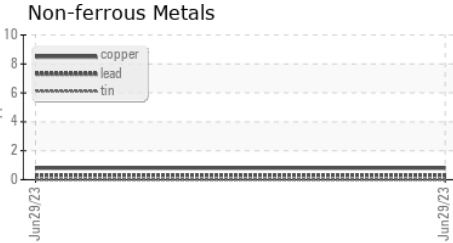
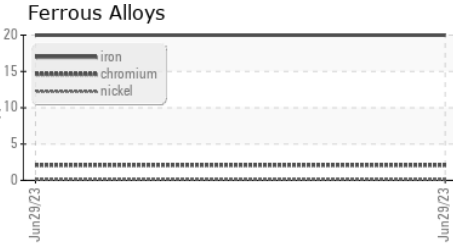
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	37.7	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste
Sample No. : GFL0084413 **Received** : 10 Jul 2023 4365 boul. St-Elzear Ouest, Laval, QC CA H7P 4J3
Lab Number : 02568826 **Diagnosed** : 11 Jul 2023
Unique Number : 5605872 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ, PrtCount)
 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.