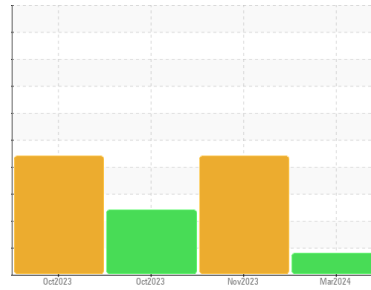




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
7241
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (--- GAL)

DIAGNOSIS

Recommendation

Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear

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

Contamination

Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile.

Fluid Condition

L'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0114791	GFL0097032	GFL0097129
Sample Date	Client Info	28 Mar 2024	15 Nov 2023	16 Oct 2023
Machine Age	hrs	14452	282069	279828
Oil Age	hrs	0	0	0
Oil Changed	Client Info	Not Chngd	Not Chngd	Not Chngd
Sample Status		ABNORMAL	SEVERE	SEVERE

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >40	3	8	8
Chromium	ppm ASTM D5185(m) >5	1	3	4
Nickel	ppm ASTM D5185(m) >2	0	<1	0
Titanium	ppm ASTM D5185(m) >2	0	0	0
Silver	ppm ASTM D5185(m)	0	<1	<1
Aluminum	ppm ASTM D5185(m) >8	<1	1	<1
Lead	ppm ASTM D5185(m) >5	0	<1	0
Copper	ppm ASTM D5185(m) >20	<1	<1	<1
Tin	ppm ASTM D5185(m) >2	0	0	0
Antimony	ppm ASTM D5185(m) >2	0	0	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	<1	<1	<1
Barium	ppm ASTM D5185(m) 0	0	<1	<1
Molybdenum	ppm ASTM D5185(m) 0	<1	0	0
Manganese	ppm ASTM D5185(m) 1	0	0	0
Magnesium	ppm ASTM D5185(m) 0	31	8	10
Calcium	ppm ASTM D5185(m) 50	84	68	68
Phosphorus	ppm ASTM D5185(m) 330	363	347	346
Zinc	ppm ASTM D5185(m) 430	455	434	445
Sulfur	ppm ASTM D5185(m) 760	806	767	784
Lithium	ppm ASTM D5185(m)	<1	<1	<1

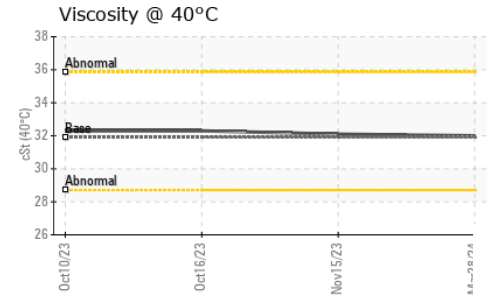
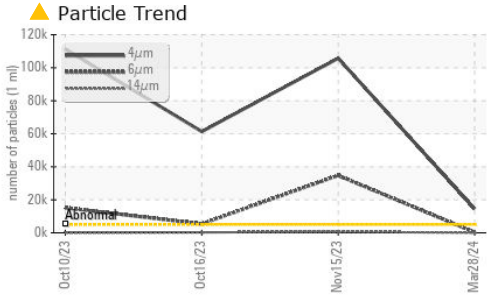
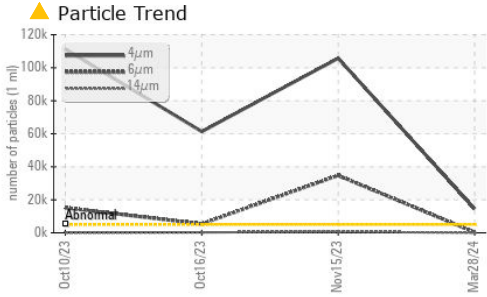
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	0	3	2
Sodium	ppm ASTM D5185(m)	<1	1	2
Potassium	ppm ASTM D5185(m) >20	<1	0	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 14485	▲ 105744	▲ 61316
Particles >6µm	ASTM D7647 >1300	302	▲ 34742	▲ 5398
Particles >14µm	ASTM D7647 >160	13	▲ 653	● 241
Particles >21µm	ASTM D7647 >40	5	● 76	● 50
Particles >38µm	ASTM D7647 >10	1	3	2
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 21/15/11	▲ 24/22/17	▲ 23/20/15

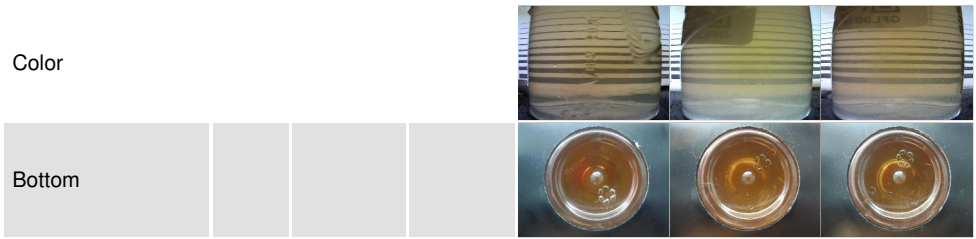
OIL ANALYSIS REPORT



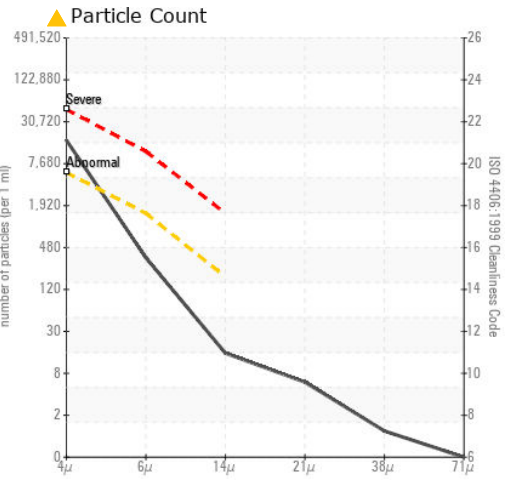
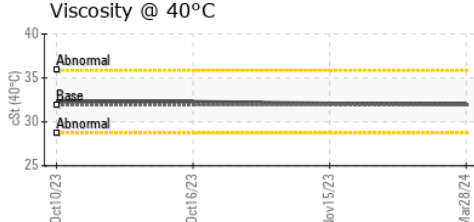
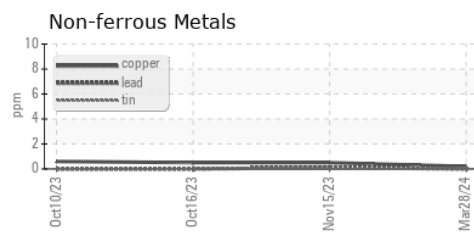
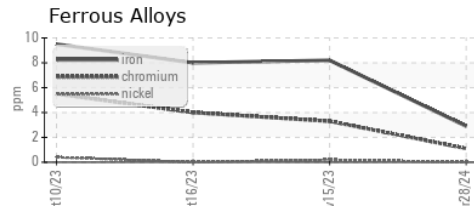
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	HAZY	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	32.0	32.1 32.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 780 - GMA - ICI - Solid Waste**
Sample No. : GFL0114791 **Received** : 02 Apr 2024 4365 boul. St-Elzear Ouest,
Lab Number : 02626112 **Tested** : 03 Apr 2024 Laval, QC
Unique Number : 5759244 **Diagnosed** : 03 Apr 2024 - Wes Davis CA H7P 4J3
Test Package : MOB 1 (Additional Tests: PrtCount) Contact: Pieces Laval
 To discuss this sample report, contact Customer Service at 1-800-268-2131. pieces.laval@gflenv.com
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (450)687-3838
 Validity of results and interpretation are based on the sample and information as supplied. F: