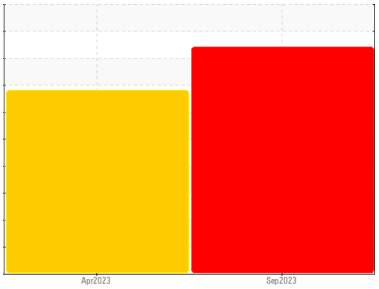
OIL ANALYSIS REPORT

LUBE 360 DIAGNOSTICS

Machine Id
819007
Component
Transmission (Auto)
Fluid
PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)

Sample Rating Trend



WEAR

DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier tous les endroits par lesquels de la saleté peut pénétrer dans le système. Nous vous recommandons de vidanger le fluide de ce composant si vous ne l`avez pas déjà fait. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear

Il y a indication d'usure du convertisseur de couple. Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion.

Contamination

Concentration modérée de saleté dans le fluide. Une grande quantité de saleté a provoqué une usure abrasive du composant.

Fluid Condition

le fluide n'est plus en état de service en raison d'une usure anomale et/ou sévère.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0078542**	PC0072942	---
Sample Date		Client Info		**25 Sep 2023**	06 Apr 2023	---
Machine Age	kms	Client Info		**0**	68676	---
Oil Age	kms	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**SEVERE**	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>50	**15**	2	---
Iron	ppm	ASTM D5185(m)	>160	⬢ **411**	⬢ 270	---
Chromium	ppm	ASTM D5185(m)	>5	**1**	<1	---
Nickel	ppm	ASTM D5185(m)	>5	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)		**0**	<1	---
Silver	ppm	ASTM D5185(m)	>5	**<1**	0	---
Aluminum	ppm	ASTM D5185(m)	>50	▲ **80**	▲ 74	---
Lead	ppm	ASTM D5185(m)	>50	**32**	29	---
Copper	ppm	ASTM D5185(m)	>225	**28**	23	---
Tin	ppm	ASTM D5185(m)	>10	**5**	5	---
Antimony	ppm	ASTM D5185(m)		**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

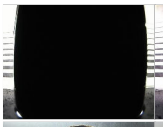
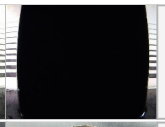
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	78	**73**	72	---
Barium	ppm	ASTM D5185(m)		**<1**	0	---
Molybdenum	ppm	ASTM D5185(m)	0	**<1**	<1	---
Manganese	ppm	ASTM D5185(m)		**4**	3	---
Magnesium	ppm	ASTM D5185(m)	0	**2**	4	---
Calcium	ppm	ASTM D5185(m)	113	**87**	87	---
Phosphorus	ppm	ASTM D5185(m)	222	**235**	256	---
Zinc	ppm	ASTM D5185(m)		**22**	18	---
Sulfur	ppm	ASTM D5185(m)	1326	**903**	953	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	▲ **23**	19	---
Sodium	ppm	ASTM D5185(m)		**11**	11	---
Potassium	ppm	ASTM D5185(m)	>20	**4**	3	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	VLITE	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	---
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	---
Free Water	scalar	Visual*		**NEG**	NEG	---

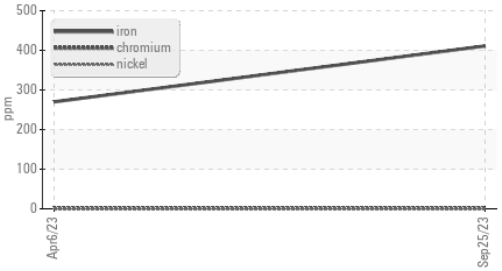
OIL ANALYSIS REPORT

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	34.8	**37.2**	36.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	7.0	**7.2**	7	---
Viscosity Index (VI)	Scale	ASTM D2270*	167	**160**	157	---

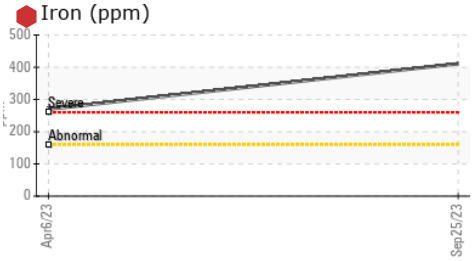
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

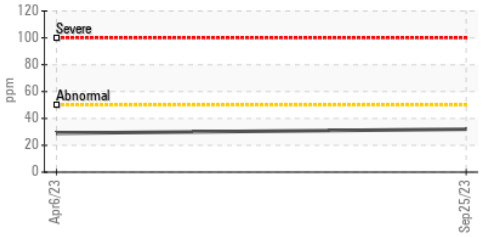
Ferrous Alloys



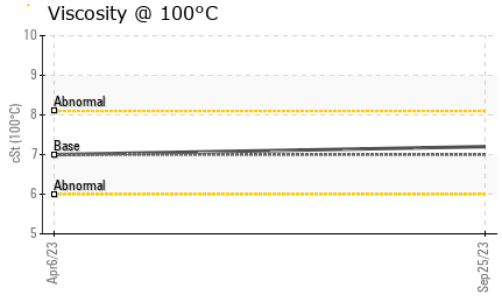
Iron (ppm)



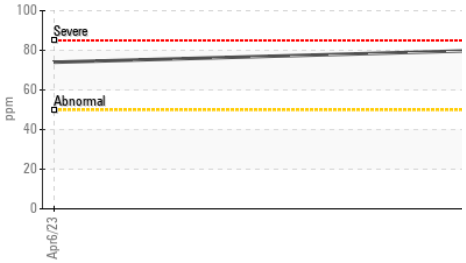
Lead (ppm)



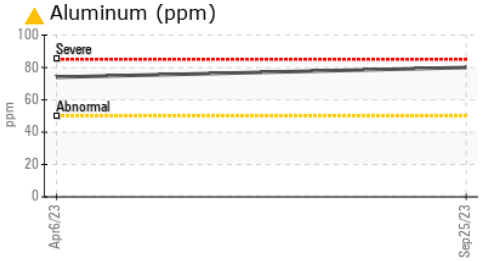
Viscosity @ 100°C



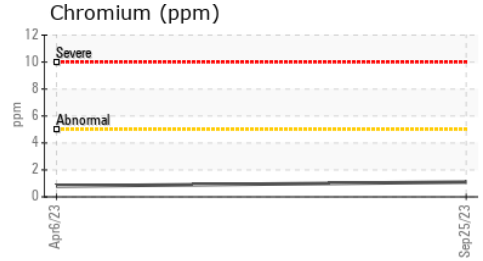
Aluminum (ppm)



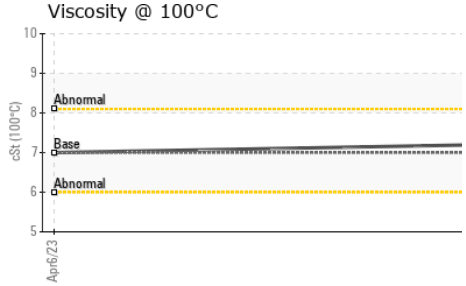
Aluminum (ppm)



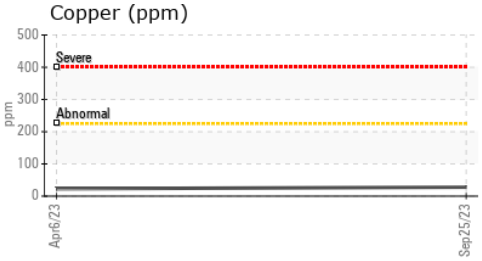
Chromium (ppm)



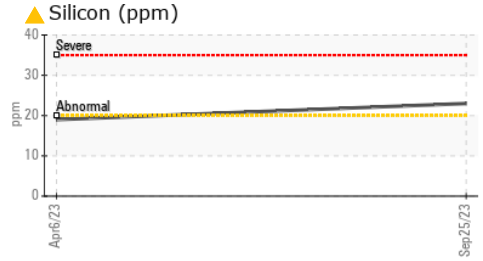
Viscosity @ 100°C



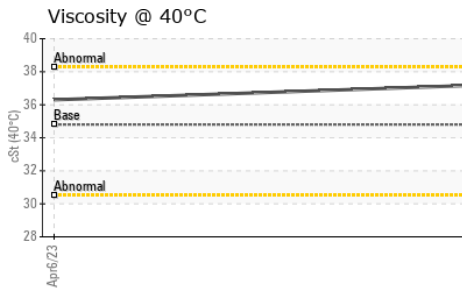
Copper (ppm)



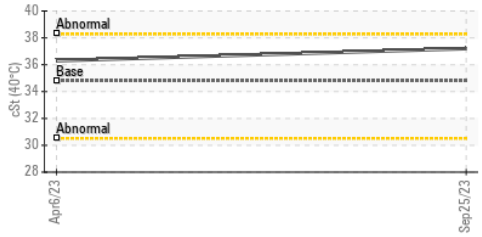
Silicon (ppm)



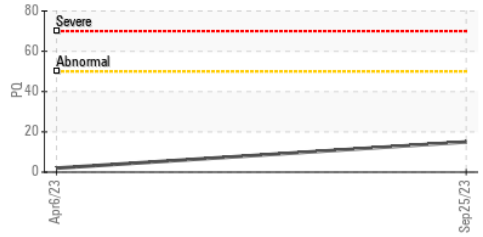
Viscosity @ 40°C



Viscosity @ 40°C



PQ



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 737 - Quebec City Hauling**
Sample No. : PC0078542 **Received** : 27 Sep 2023 6205 Boul. Wilfrid Hamel,
Lab Number : 02585607 **Diagnosed** : 28 Sep 2023 Quebec City, QC
Unique Number : 5646672 **Diagnostician** : Kevin Marson CA G2E 5G8
Test Package : MOB 1 (Additional Tests: KV100, PQ, VI) Contact: Dave Beaulieu

To discuss this sample report, contact Customer Service at 1-800-268-2131. davebeaulieu@matrec.ca
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T:
Validity of results and interpretation are based on the sample and information as supplied. F: