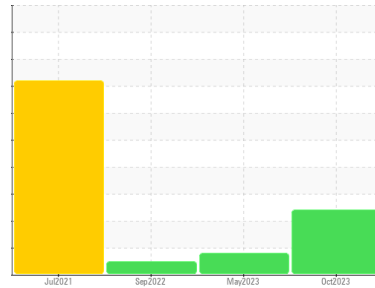




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
401161

Component
Transmission (Auto)

Fluid
PETRO CANADA DURADRIVE HD SYNTHETIC ATF (--- GAL)

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

Usure de disque d'embrayage et (ou) du système de refroidissement.

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 anormale et/ou sévère.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	GFL0097115	GFL0062040	GFL0047487	
Sample Date	Client Info	30 Oct 2023	11 May 2023	24 Sep 2022	
Machine Age	kms	Client Info	8526	7590	172796
Oil Age	kms	Client Info	1200	1200	0
Oil Changed	Client Info	Not Chngd	Not Chngd	N/A	
Sample Status		ABNORMAL	MARGINAL	NORMAL	

WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>220	55	40	50
Chromium	ppm	ASTM D5185(m)	>2	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>75	32	24	9
Lead	ppm	ASTM D5185(m)	>95	3	1	2
Copper	ppm	ASTM D5185(m)	>60	▲ 123	▲ 60	3
Tin	ppm	ASTM D5185(m)	>10	<1	0	<1
Antimony	ppm	ASTM D5185(m)	>2	0	<1	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)		69	66	86
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		2	2	0
Manganese	ppm	ASTM D5185(m)		16	13	<1
Magnesium	ppm	ASTM D5185(m)		2	1	1
Calcium	ppm	ASTM D5185(m)		236	226	95
Phosphorus	ppm	ASTM D5185(m)		292	296	234
Zinc	ppm	ASTM D5185(m)		62	28	3
Sulfur	ppm	ASTM D5185(m)		1722	1691	1505
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

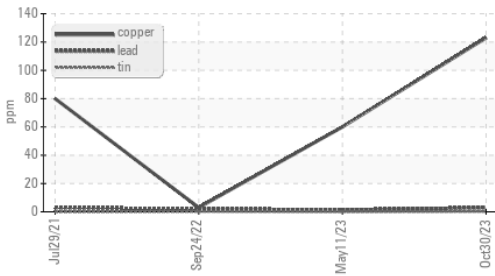
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>25	▲ 28	23	7
Sodium	ppm	ASTM D5185(m)		2	1	3
Potassium	ppm	ASTM D5185(m)	>20	0	2	<1

VISUAL

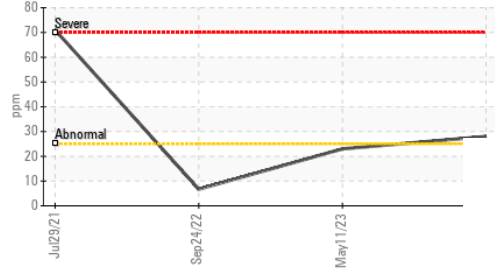
method	limit/base	current	history1	history2		
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	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
Free Water	scalar	Visual*		NEG	NEG	NEG

OIL ANALYSIS REPORT

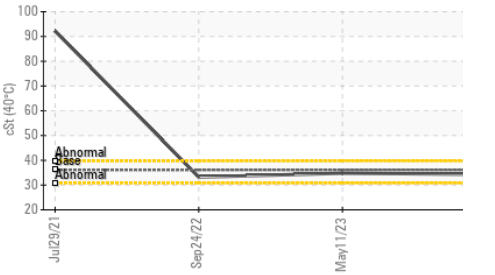
Non-ferrous Metals



Silicon (ppm)



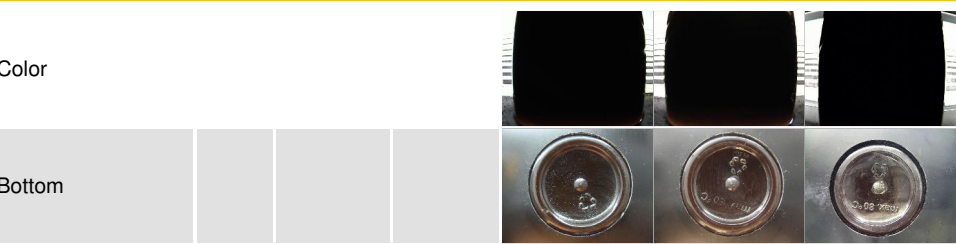
Viscosity @ 40°C



FLUID PROPERTIES

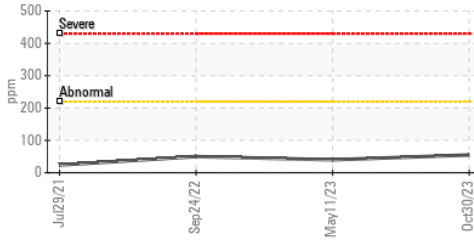
method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D7279(m)	36.1	34.8	33.2

SAMPLE IMAGES

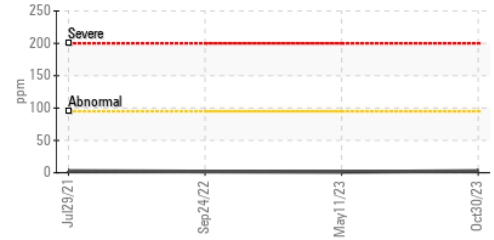


GRAPHS

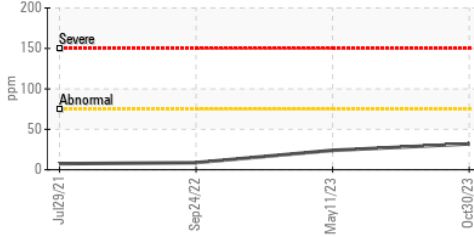
Iron (ppm)



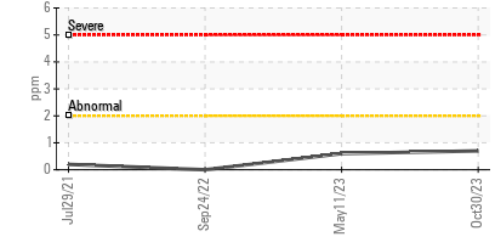
Lead (ppm)



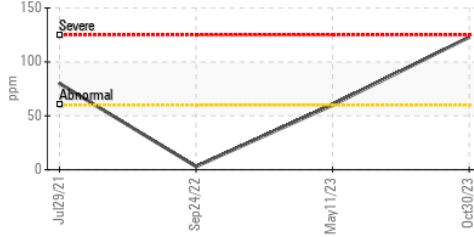
Aluminum (ppm)



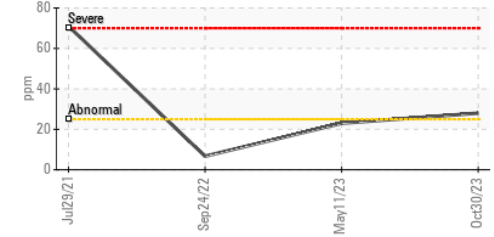
Chromium (ppm)



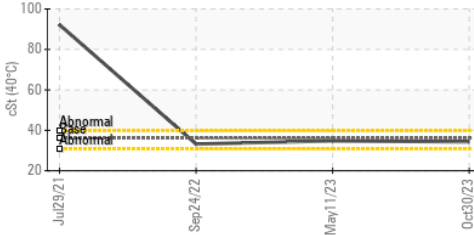
Copper (ppm)



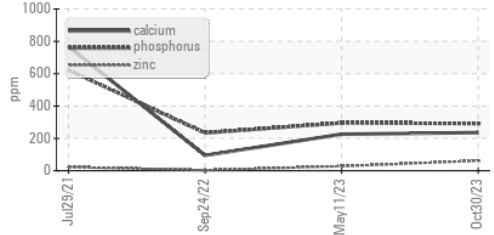
Silicon (ppm)



Viscosity @ 40°C



Additives



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste
Sample No. : GFL0097115 **Received** : 03 Nov 2023 4365 boul. St-Elzear Ouest,
Lab Number : 02593955 **Diagnosed** : 03 Nov 2023 Laval, QC
Unique Number : 5671034 **Diagnostician** : Kevin Marson CA H7P 4J3
Test Package : MOB 1 Contact: Pieces Laval
 pieces.laval@gflenv.com

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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F: