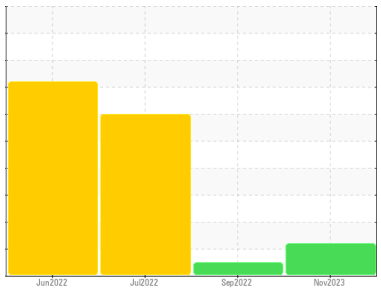
OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
801108
Component
Transmission (Auto)
Fluid
PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)

DIAGNOSIS

Recommendation
The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the fluid.

Fluid Condition
The AN level is above the recommended limit. The fluid is no longer serviceable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0091593**	GFL0057769	GFL0052628
Sample Date		Client Info		**19 Nov 2023**	14 Sep 2022	04 Jul 2022
Machine Age	hrs	Client Info		**13685**	10351	9876
Oil Age	hrs	Client Info		**2202**	1119	0
Oil Changed		Client Info		**Changed**	Changed	N/A
Sample Status				**ABNORMAL**	NORMAL	SEVERE

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

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>50	**0**	0	---
Iron	ppm	ASTM D5185(m)	>160	**134**	55	111
Chromium	ppm	ASTM D5185(m)	>5	**<1**	0	<1
Nickel	ppm	ASTM D5185(m)	>5	**<1**	0	0
Titanium	ppm	ASTM D5185(m)		**0**	0	<1
Silver	ppm	ASTM D5185(m)	>5	**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>50	**28**	49	89
Lead	ppm	ASTM D5185(m)	>50	**7**	10	22
Copper	ppm	ASTM D5185(m)	>225	**25**	4	17
Tin	ppm	ASTM D5185(m)	>10	**2**	1	3
Antimony	ppm	ASTM D5185(m)		**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)	78	**72**	97	142
Barium	ppm	ASTM D5185(m)		**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)	0	**0**	<1	<1
Manganese	ppm	ASTM D5185(m)		**3**	<1	2
Magnesium	ppm	ASTM D5185(m)	0	**3**	2	2
Calcium	ppm	ASTM D5185(m)	113	**131**	130	127
Phosphorus	ppm	ASTM D5185(m)	222	**216**	293	364
Zinc	ppm	ASTM D5185(m)		**15**	18	41
Sulfur	ppm	ASTM D5185(m)	1326	**1361**	1688	2486
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**11**	9	15
Sodium	ppm	ASTM D5185(m)		**4**	7	12
Potassium	ppm	ASTM D5185(m)	>20	**<1**	1	3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.4	**3.69**	0.12	2.62

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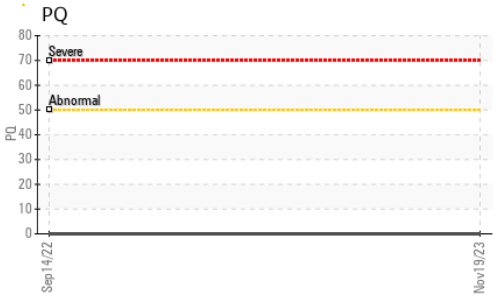
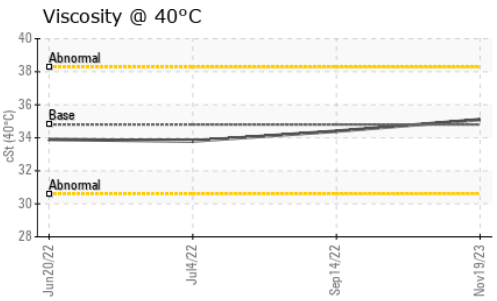
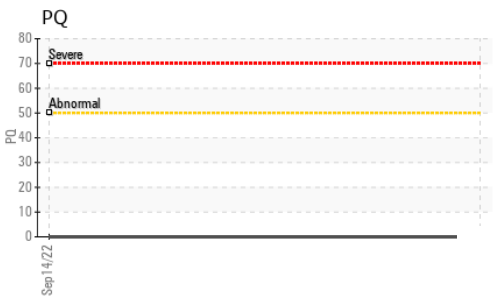




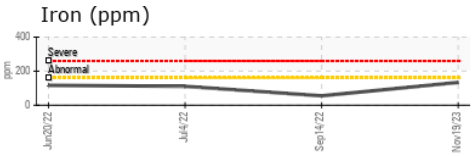


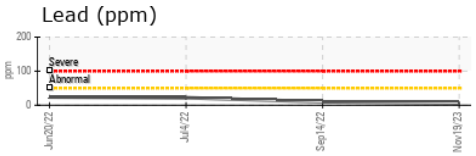
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	LIGHT
Debris	scalar	Visual*	NONE	**NONE**	NONE	VLITE
Sand/Dirt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

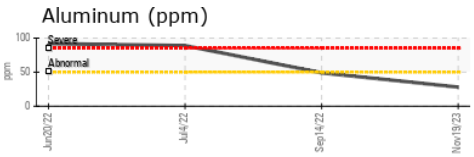
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	34.8	**35.1**	34.4	33.8

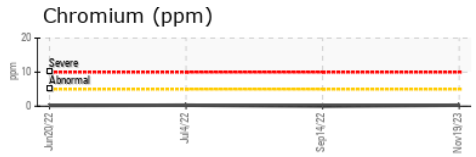
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

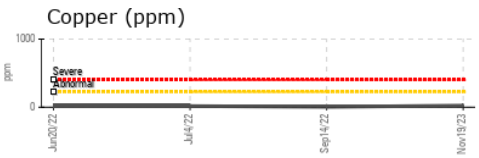
GRAPHS

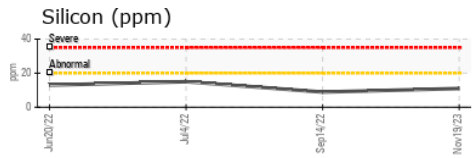


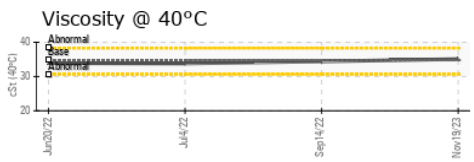


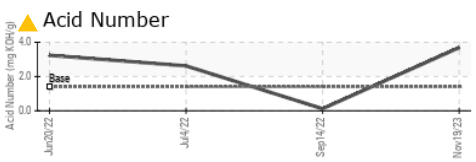












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 550 - Rocky View County**
Sample No. : GFL0091593 **Received** : 04 Dec 2023 220 Carmek Blvd
Lab Number : 02600581 **Diagnosed** : 07 Dec 2023 Rocky View County, AB
Unique Number : 5685661 **Diagnostician** : Kevin Marson CA T1X 1X1
Test Package : MOB 2 (Additional Tests: PQ, TAN Man) Contact: GFL Calgary

To discuss this sample report, contact Customer Service at 1-800-268-2131. calgarymaintenance@gflenv.com
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: (403)369-6163