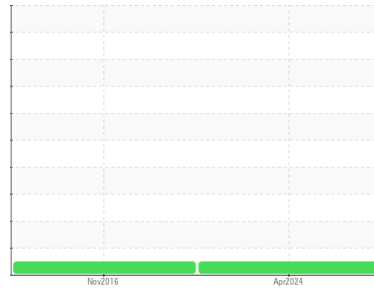




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**8264**  
 Component  
**Front Transmission (Auto)**  
 Fluid  
**PETRO CANADA DURADRIVE HD SYNTHETIC ATF (26 LTR)**

## DIAGNOSIS

### Recommendation

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 condition of the fluid is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0117300</b>	PC398339	---
Sample Date	Client Info		<b>20 Apr 2024</b>	07 Nov 2016	---
Machine Age	hrs	Client Info	<b>330729</b>	1273	---
Oil Age	hrs	Client Info	<b>0</b>	1273	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>230	<b>73</b>	88	---
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>65	<b>24</b>	27	---
Lead	ppm	ASTM D5185(m)	>55	<b>2</b>	11	---
Copper	ppm	ASTM D5185(m)	>85	<b>7</b>	15	---
Tin	ppm	ASTM D5185(m)	>5	<b>1</b>	1	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>65</b>	90	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	1	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	1	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185(m)		<b>4</b>	<1	---
Calcium	ppm	ASTM D5185(m)		<b>115</b>	48	---
Phosphorus	ppm	ASTM D5185(m)		<b>219</b>	265	---
Zinc	ppm	ASTM D5185(m)		<b>7</b>	9	---
Sulfur	ppm	ASTM D5185(m)		<b>1173</b>	730	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	1	---

## CONTAMINANTS

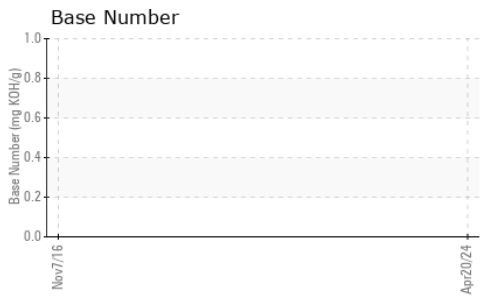
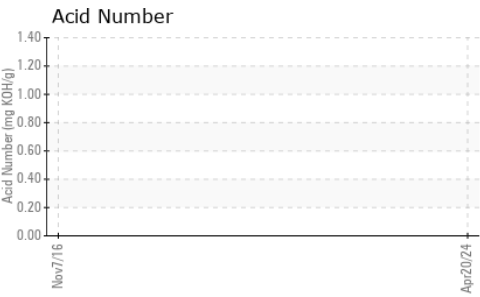
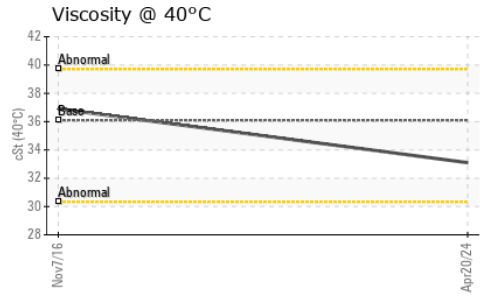
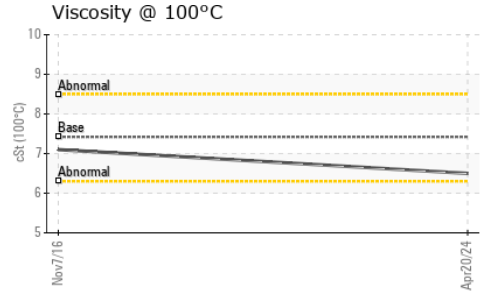
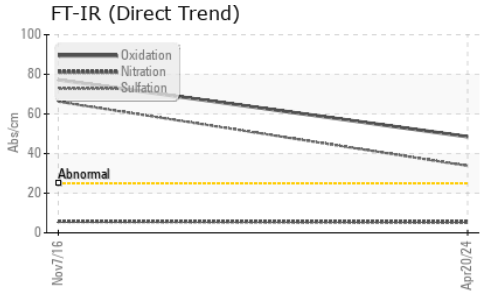
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	<b>11</b>	8	---
Sodium	ppm	ASTM D5185(m)		<b>7</b>	8	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	5	---

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*		<b>5.4</b>	5.8	---
Sulfation	Abs./1mm	ASTM D7415*		<b>33.8</b>	66.2	---



# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		<b>48.5</b>	77.2	---
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>1.37</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>0.97</b>	---	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	36.1	<b>33.1</b>	36.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	7.42	<b>6.5</b>	7.1	---
Viscosity Index (VI)	Scale	ASTM D2270*	178	<b>154</b>	158	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						<i>no image</i>
Bottom						<i>no image</i>



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9    **GFL Environmental - 550 - Rocky View County**  
**Sample No.** : GFL0117300    **Received** : 01 May 2024    220 Carmek Blvd  
**Lab Number** : **02632472**    **Tested** : 02 May 2024    Rocky View County, AB  
**Unique Number** : 5773625    **Diagnosed** : 02 May 2024 - Kevin Marson    CA T1X 1X1  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TAN Man, TBN, Vbhtact: GFL Calgary  
 calgarymaintenance@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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