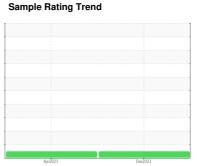


# **OIL ANALYSIS REPORT**



NORMAL



Machine Id 933024

Component

**Transmission (Auto)** 

PETRO CANADA DuraDrive HD Synthetic 6

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the fluid.

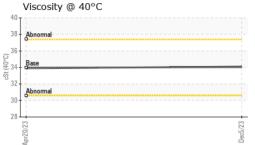
## **Fluid Condition**

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

CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.1         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >160         43         42            Chromium         ppm         ASTM D5185m         >5         0         0            Nickel         ppm         ASTM D5185m         >5         <1         0	68 ( LTR)			Apr2023	Dec2023		
Cample Date   Client Info   05 Dec 2023   20 Apr 2023	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Cample Date   Client Info   05 Dec 2023   20 Apr 2023	Sample Number		Client Info		GFL0099907	GFL0070419	
Machine Age	· ·						
Dil Age	•	hrs					
Contained   Client Info   Not Change   Northand   Northand   Northand   Contained   Northand   No							
CONTAMINATION   method   limit/base   current   history1   history2	•	0					
Water	Sample Status						
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >160         43         42	CONTAMINAT	TION	method	limit/base	current	history1	history2
Chromium	Water		WC Method	>0.1	NEG	NEG	
Description	WEAR METAL	_S	method	limit/base	current	history1	history2
Nickel	ron	ppm	ASTM D5185m	>160	43	42	
Description	Chromium	ppm	ASTM D5185m	>5	0	0	
Saliver	Vickel	ppm	ASTM D5185m	>5	<1	0	
Saliver	Titanium		ASTM D5185m		0	0	
Astronomega	Silver			>5			
Lead	Aluminum		ASTM D5185m	>50		13	
Description					-		
ASTM D5185m   Part	Copper		ASTM D5185m	>225		7	
Vanadium         ppm         ASTM D5185m         0         0            Cadmium         ppm         ASTM D5185m         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         94         110            Barium         ppm         ASTM D5185m         0         <1            Wollybdenum         ppm         ASTM D5185m         0         <1            Wagnesium         ppm         ASTM D5185m         1         2            Wagnesium         ppm         ASTM D5185m         78         72            Calcium         ppm         ASTM D5185m         250         257            Phosphorus         ppm         ASTM D5185m         250         257            Zinc         ppm         ASTM D5185m         250         257            Zinc         ppm         ASTM D5185m         20         4         4            CONTAMINANTS         method         limit/base         current         history1	• •		ASTM D5185m	>10	4	2	
ADDITIVES	/anadium				0	0	
Soron   ppm   ASTM D5185m   94							
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0         <1            Manganese         ppm         ASTM D5185m         1         2            Magnesium         ppm         ASTM D5185m         <1	Boron	ppm	ASTM D5185m		94	110	
Manganese         ppm         ASTM D5185m         1         2            Magnesium         ppm         ASTM D5185m         <1	Barium	ppm	ASTM D5185m		0	<1	
Magnesium         ppm         ASTM D5185m         <1         2            Calcium         ppm         ASTM D5185m         78         72            Phosphorus         ppm         ASTM D5185m         250         257            Zinc         ppm         ASTM D5185m         0         3            Sulfur         ppm         ASTM D5185m         1278         1365            CONTAMINANTS         method         limit/base         current         history1         history2           Gilicon         ppm         ASTM D5185m         >20         4         4            Godium         ppm         ASTM D5185m         >20         4         3            Potassium         ppm         ASTM D5185m         >20         4         3            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar	Molybdenum	ppm	ASTM D5185m		0	<1	
Calcium         ppm         ASTM D5185m         78         72            Phosphorus         ppm         ASTM D5185m         250         257            Zinc         ppm         ASTM D5185m         0         3            Sulfur         ppm         ASTM D5185m         1278         1365            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         20         4         4            Sodium         ppm         ASTM D5185m         6         3            Potassium         ppm         ASTM D5185m         >20         4         3            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           Obebris         scalar         *Visual <td>Manganese</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>1</td> <td>2</td> <td></td>	Manganese	ppm	ASTM D5185m		1	2	
Phosphorus         ppm         ASTM D5185m         250         257            Zinc         ppm         ASTM D5185m         0         3            Sulfur         ppm         ASTM D5185m         1278         1365            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4         4            Sodium         ppm         ASTM D5185m         >20         4         3            Potassium         ppm         ASTM D5185m         >20         4         3            Potassium         ppm         ASTM D5185m         >20         4         3            Potassium         ppm         ASTM D5185m         >20         4         3            VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         *Visual         NONE         NONE         NONE           Yellow Metal         scalar         *Visual         NONE         NONE         NONE	Magnesium	ppm	ASTM D5185m		<1	2	
Delta   Delt	Calcium	ppm	ASTM D5185m		78	72	
Contamination	Phosphorus	ppm	ASTM D5185m		250	257	
Sulfur         ppm         ASTM D5185m         1278         1365            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         4         4            Sodium         ppm         ASTM D5185m         >20         4         3            Potassium         ppm         ASTM D5185m         >20         4         3            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           Precipitate         scalar         *Visual         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE           Debris         scalar         *Visual         NONE         NONE         NONE           Sand/Dirt			ASTM D5185m		0	3	
Solition	Sulfur		ASTM D5185m		1278	1365	
Sodium	CONTAMINAN	NTS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 4 3  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 NONE NONE NONE  Appearance scalar *Visual NORML NORML NORML  Codor scalar *Visual NORML NORML NORML  Emulsified Water scalar *Visual >0.1 NEG NEG	Silicon	ppm	ASTM D5185m	>20	4	4	
Potassium ppm ASTM D5185m >20 4 3  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 NONE NONE NONE  Appearance scalar *Visual NORML NORML NORML  Emulsified Water scalar *Visual >0.1 NEG NEG	Sodium	ppm	ASTM D5185m		6	3	
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 NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Potassium	ppm	ASTM D5185m	>20	4	3	
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     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML        Emulsified Water     scalar     *Visual     >0.1     NEG     NEG	VISUAL		method	limit/base	current	history1	history2
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 NORML NORML Ddor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	White Metal	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 NORML NORML Ddor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	
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	Silt	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	Debris	scalar	*Visual	NONE	NONE	NONE	
Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG	Appearance	scalar	*Visual	NORML		NORML	
Emulsified Water scalar *Visual >0.1 NEG NEG	• •	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar		>0.1		NEG	
	Free Water	scalar	*Visual		NEG	NEG	

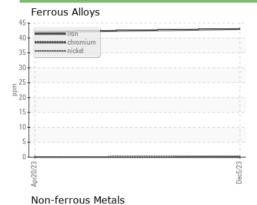


# **OIL ANALYSIS REPORT**

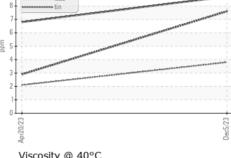


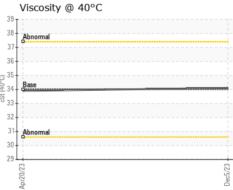


## **GRAPHS**











Certificate L2367

Laboratory Sample No. Lab Number

: GFL0099907 : 06028248 Unique Number : 10778039 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Dec 2023 Diagnosed : 10 Dec 2023 Diagnostician : Don Baldridge

GFL Environmental - 836 - Kansas City Hauling 7801 East Truman Road

Kansas City, MO US 64126 Contact: Robert Hart rhart@gflenv.com T: (580)461-1509

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)