

# **OIL ANALYSIS REPORT**

Sample Rating Trend



### Machine Id 920076

Component 1 Differential

#### Fluid PETRO CANADA TRAXON SYNTHETIC 75W90 (--- GAL)

## DIAGNOSIS

#### Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate concentration of dirt present in the oil.

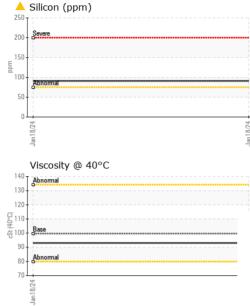
#### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103931		
Sample Date		Client Info		18 Jan 2024		
Machine Age	hrs	Client Info		32840		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG		
WEAR METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	416		
Chromium	ppm	ASTM D5185m	>10	3		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	1		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>100	47		
Tin	ppm	ASTM D5185m	>10	<1		
	ppm	ASTM D5185m		0		
	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	328	212		
Barium	ppm	ASTM D5185m	1	5		
Molybdenum	ppm	ASTM D5185m		<1		
	ppm ppm	ASTM D5185m ASTM D5185m		<1 20		
Manganese			1			
Manganese Magnesium	ppm	ASTM D5185m	1 7	20		
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m		20 5		
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	7	20 5 16		
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	7 1145	20 5 16 1238	  	
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	7 1145 3	20 5 16 1238 17	  	  
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	7 1145 3 17909	20 5 16 1238 17 22189	  	  
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	7 1145 3 17909 limit/base	20 5 16 1238 17 22189 current	  	  
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	7 1145 3 17909 limit/base >75	20 5 16 1238 17 22189 current ▲ 91	  	  
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium	ppm ppm ppm ppm ppm ppm <b>S</b> ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	7 1145 3 17909 limit/base >75	20 5 16 1238 17 22189 current ♀ 91 2	  	  
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm <b>S</b> ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	7 1145 3 17909 limit/base >75 >20 limit/base NONE	20 5 16 1238 17 22189 current 2 4 91 2 4 	   history1  	   history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	7 1145 3 17909 limit/base >75 >20 limit/base	20 5 16 1238 17 22189 current 2 91 2 4 current	   history1   history1	   history2   history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XSTM D5185m	7 1145 3 17909 limit/base >75 >20 limit/base NONE	20 5 16 1238 17 22189 current 2 4 91 2 4 	   history1   history1	   history2   history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Yisual	7 1145 3 17909 imit/base >75 >20 imit/base NONE NONE	20 5 16 1238 17 22189 current ▲ 91 2 4 current NONE NONE NONE	    history1   history1	   history2   history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	7 1145 3 17909 imit/base >75 >20 imit/base NONE NONE NONE NONE	20 5 16 1238 17 22189 current 91 2 4 current NONE NONE NONE NONE	   history1   history1	    history2   history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	7 1145 3 17909 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE	20 5 16 1238 17 22189 22189 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	   history1   history1  history1	   history2   history2  history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	7 1145 3 17909 Iimit/base >75 20 Iimit/base NONE NONE NONE NONE NONE NONE NONE	20 5 16 1238 17 22189 0urrent 91 2 4 0urrent 4 0UR NONE NONE NONE NONE NONE NONE NONE NON	   history1   history1   	   history2   history2  history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	7 1145 3 17909 Imit/base >75 20 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	20 5 16 1238 17 22189	   history1   history1  history1  	   history2   history2  history2  
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	7 1145 3 17909 <b>Imit/base</b> >75 >20 <b>Imit/base</b> NONE NONE NONE NONE NONE NONE NONE NON	20 5 16 1238 17 22189 current 91 2 4 Current NONE NONE NONE NONE NONE NONE NONE NON	   history1   history1    	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history2</li> <li></li> <li></li> <li>history2</li> <li></li> <li></li></ul>
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	7 1145 3 17909 Imit/base >75 20 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	20 5 16 1238 17 22189 current 91 2 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	   history1   history1      	<ul> <li></li> <li></li> <li></li> <li></li> <li>history2</li> <li></li> <li></li></ul>



# **OIL ANALYSIS REPORT**



	FLUID PROPI	ERTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	99.6	93.0		
	SAMPLE IMA	GES	method	limit/base	current	history1	history2
	Color				no image	no image	no image
Jan 18/24 -							
La.	Bottom				no image	no image	no image
	GRAPHS						
	Ferrous Alloys						
	400 - iron 350 - iron iron						
	350						
шd	250						
d.	200						
	100-						
	50						
	an 18/24			Jan 18/24 •			
	্র Non-ferrous Meta	alc		Jar			
	<sup>50</sup> T						
	45 - copper 40 - tin						
	35-30-						
	§ 25 -						
	20						
	10						
	0						
	Jan 18/24			Jan 18/24			
	Viscosity @ 40°C	:		,			
	Abnormal						
	130						
	120						
.St (40°	110 Base	*****					
	90						
	80 - Abnormal			-			
	70						
	Jan 18/24			Jan 18/24			
boratory	: WearCheck USA -	501 Madis	son Ave., Ca	ry, NC 2751	3 GFL Env	ironmental - 865 - E	ast Mount Haul
ample No. ab Number	: GFL0103931 : 06069197	Recieved Diagnose	<b>d</b> : 23 .	Jan 2024 Jan 2024		213 East Mount	
nique Number	: 10845874	Diagnost		in Felton	-		US 770
	: FLEET contact Customer Ser	vice at 1-8	00-237-1369	9.	Co	ntact: TECHNIC wcgflder	IAN ACCOUN no@gmail.co
methods that ar	re outside of the ISO	17025 sco	pe of accred	litation.		-	ی
ormity to speci	fications are based on	ing cimple	accontanco	acición rula	ロコールコロド・2012	(1)	

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

Submitted By: TECHNICIAN ACCOUNT

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