

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 352133

Component Gasoline Engine

Fluid PETRO CANADA SUPREME SYNTHETIC 5W30 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

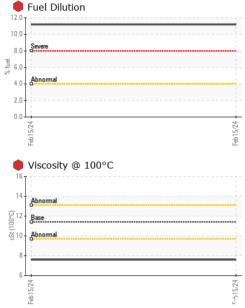
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION method limit/base current history1 history2 Sample Date Client Info IF Feb 2024 Machine Age kms Client Info 0 Oil Age kms Client Info 0 Oil Changed kms Client Info N/A Sample Status Client Info N/A CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.2 NEG Method Sample Status 0 Water WC Method >0.2 NEG Chromium ppm ASTM 051650 >20 0 Nickel ppm ASTM 051650 >20 Auminum ppm ASTM 05165	· · · ·				Feb2024		
Sample Date Client Info 15 Feb 2024 Machine Age kms Client Info 0 Oil Age Client Info 0 Sample Status Client Info N/A Sample Status Client Info N/A CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.2 NEG Chromium ppm ASTM 05/85(m) >20 0 Nickel ppm ASTM 05/85(m) >20 0 Aluminum ppm ASTM 05/85(m) >20 0 Autimonum ppm ASTM 05/85(m) >50 0 Autimonum ppm ASTM 05/85(m) >50 0 Role ppm	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age kms Client Info 0 Oil Age kms Client Info N/A Oil Changed Client Info N/A Sample Status Client Info N/A CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.2 NEG WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM DSIS(m) >150 8 Mickel ppm ASTM DSIS(m) >5 <1 Silver ppm ASTM DSIS(m) >5 0 Copper ppm ASTM DSIS(m) >10 0 Artimomy ppm ASTM DSIS(m) 0 Astm DSISS(m) 0 <td>Sample Number</td> <td></td> <td>Client Info</td> <td></td> <th>GFL0097577</th> <td></td> <td></td>	Sample Number		Client Info		GFL0097577		
Oil Age kms Client Info N/A Sample Status Imit/base current history1 history2 Water WC Method >0.2 NEG Water WC Method >0.2 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D518(m) >150 8 Nickel ppm ASTM D518(m) >20 0 Nickel ppm ASTM D518(m) >50 8 Aluminum ppm ASTM D518(m) >50 0 Aduminum ppm ASTM D518(m) >50 0 Aduminum ppm ASTM D518(m) >50 0 Aduminum ppm ASTM D518(m) >50 0	Sample Date		Client Info		15 Feb 2024		
Oil Changed Sample Status Client Info N/A CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG Wear METALS method imit/base current history1 history2 Iron ppm ASTM 0585(m) >50 8 Aluminum ppm ASTM 0585(m) >20 0 Aluminum ppm ASTM 0585(m) >20 0 Aluminum ppm ASTM 0585(m) >10 0 Aluminum ppm ASTM 0585(m) 0 0	Machine Age	kms	Client Info		0		
Sample Status Imate of the interval sector of the	Oil Age	kms	Client Info		0		
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >150 8 Nickel ppm ASTM D5185(m) >20 0 Nickel ppm ASTM D5185(m) >5 <1 Aluminum ppm ASTM D5185(m) >2 0 Aluminum ppm ASTM D5185(m) >50 0 Auminum ppm ASTM D5185(m) >10 0 Auminum ppm ASTM D5185(m) >10 0 Auminum ppm ASTM D5185(m) 10 0 Autimony ppm ASTM D5185(m) 10	Oil Changed		Client Info		N/A		
Water WC Method >0.2 NEG Glycol WC Method NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185(m) >55 <1 Nickel ppm ASTM D5185(m) >5 <1 Nickel ppm ASTM D5185(m) >5 <1 Aluminum ppm ASTM D5185(m) >50 0 Lead ppm ASTM D5185(m) >50 0 Tin ppm ASTM D5185(m) >10 0 Antimony ppm ASTM D5185(m) >10 0 Astm D5185(m) ppm ASTM D5185(m) 16 37 Beryllium ppm ASTM D5185(m) 78 465 <	Sample Status				SEVERE		
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Nickel ppm ASTM D5185(m) >5 <1	Iron	ppm	ASTM D5185(m)	>150	8		
Titanium ppm ASTM D5185(m) >2 0 Silver ppm ASTM D5185(m) >2 0 Aluminum ppm ASTM D5185(m) >60 0 Lead ppm ASTM D5185(m) >50 0 Copper ppm ASTM D5185(m) >10 0 Antimony ppm ASTM D5185(m) >10 0 Vanadium ppm ASTM D5185(m) 0 Antimony ppm ASTM D5185(m) 0 Adadium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 79 63 Marganese ppm ASTM D5185(m)	Chromium	ppm	ASTM D5185(m)	>20	0		
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Copper ppm ASTM D5185(m) >155 2 Tin ppm ASTM D5185(m) >10 0 Antimony ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 74 0 Magnese ppm ASTM D5185(m) 79 63 Magnesium ppm ASTM D5185(m) 0 0 Magnesium ppm ASTM D5185(m) 745 628 Calcium ppm ASTM D5185(m) 202 2385 <td>Aluminum</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td>>40</td> <th>3</th> <td></td> <td></td>	Aluminum	ppm	ASTM D5185(m)	>40	3		
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Barium ppm ASTM D5185(m) <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) 79 63 Manganese ppm ASTM D5185(m) 0 0 Magnesium ppm ASTM D5185(m) 578 465 Calcium ppm ASTM D5185(m) 1002 1134 Calcium ppm ASTM D5185(m) 745 628 Zinc ppm ASTM D5185(m) 837 686 Sulfur ppm ASTM D5185(m) 2502 2385 Lithium ppm ASTM D5185(m) 2502 2385 Sulfur ppm ASTM D5185(m) 250 <11 Sulfur ppm ASTM D5185(m) >30 20 Solicon ppm ASTM D5185(m) >20 <11 Fuel <td< th=""><td>Boron</td><td>ppm</td><td>ASTM D5185(m)</td><td>186</td><th>37</th><td></td><td></td></td<>	Boron	ppm	ASTM D5185(m)	186	37		
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Calcium ppm ASTM D5185(m) 1002 1134 Phosphorus ppm ASTM D5185(m) 745 628 Zinc ppm ASTM D5185(m) 837 686 Sulfur ppm ASTM D5185(m) 2502 2385 Lithium ppm ASTM D5185(m) 2502 2385 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >30 20 Sodium ppm ASTM D5185(m) >400 5 Potassium ppm ASTM D5185(m) >20 <1 Fuel % ASTM D5185(m) >20 <11.2 Fuel % ASTM D7593* >4.0 11.2 NFRA-RED meth	0	ppm	ASTM D5185(m)	0	0		
Phosphorus ppm ASTM D5185(m) 745 628 Zinc ppm ASTM D5185(m) 837 686 Sulfur ppm ASTM D5185(m) 2502 2385 Lithium ppm ASTM D5185(m) 2502 2385 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >30 20 Sodium ppm ASTM D5185(m) >400 5 Potassium ppm ASTM D5185(m) >20 <1 Fuel % ASTM D5185(m) >20 <1 Fuel % ASTM D7593* >4.0 11.2 INFRA-RED method limit/base current history1 history2 Soot % % <td< th=""><td>Magnesium</td><td>ppm</td><td>ASTM D5185(m)</td><td>578</td><th>465</th><td></td><td></td></td<>	Magnesium	ppm	ASTM D5185(m)	578	465		
Zinc ppm ASTM D5185(m) 837 686 Sulfur ppm ASTM D5185(m) 2502 2385 Lithium ppm ASTM D5185(m) 2502 2385 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >30 20 Sodium ppm ASTM D5185(m) >400 5 Potassium ppm ASTM D5185(m) >20 <1 Fuel % ASTM D5185(m) >20 <1 Fuel % ASTM D593* >4.0 11.2 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* >20	Calcium	ppm	ASTM D5185(m)	1002	1134		
Sulfur ppm ASTM D5185(m) 2502 2385 Lithium ppm ASTM D5185(m) < <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >30 20 Sodium ppm ASTM D5185(m) >400 5 Potassium ppm ASTM D5185(m) >20 <1 Fuel % ASTM D5185(m) >20 <1 Fuel % ASTM D7593* >4.0 11.2 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* >20 12.2	Phosphorus	ppm	ASTM D5185(m)	745	628		
Lithium ppm ASTM D5185(m) <1	Zinc	ppm	ASTM D5185(m)	837			
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >30 20 Sodium ppm ASTM D5185(m) >400 5 Potassium ppm ASTM D5185(m) >20 <1 Fuel % ASTM D7593* >4.0 11.2 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* >20 12.2		ppm	()	2502	2385		
Silicon ppm ASTM D5185(m) >30 20 Sodium ppm ASTM D5185(m) >400 5 Potassium ppm ASTM D5185(m) >20 <1 Fuel % ASTM D7593* >4.0 11.2 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* >20 12.2	Lithium	ppm	ASTM D5185(m)		<1		
Sodium ppm ASTM D5185(m) >400 5 Potassium ppm ASTM D5185(m) >20 <1 Fuel % ASTM D7593* >4.0 11.2 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* >20 12.2	CONTAMINANT	S	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185(m) >20 <1	Silicon	ppm	ASTM D5185(m)	>30			
Fuel % ASTM D7593* >4.0 11.2 INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* >20 12.2	Sodium	ppm	. ,	>400	5		
INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* >20 12.2							
Soot % % ASTM D7844* 0 Nitration Abs/cm ASTM D7624* >20 12.2	Fuel	%	ASTM D7593*	>4.0	11.2		
Nitration Abs/cm ASTM D7624* >20 12.2	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*		0		
Sulfation Abs/.1mm ASTM D7415* >30 23.0	Nitration	Abs/cm	ASTM D7624*	>20	12.2		
	Sulfation	Abs/.1mm	ASTM D7415*	>30			



OIL ANALYSIS REPORT



	Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1		
	VISUAL		method	limit/base	e current	history1	history2
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Precipitate	scalar	Visual*	NONE	NONE		
/24 -	Silt	scalar	Visual*	NONE	NONE		
Feb15/24	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
	Free Water	scalar	Visual*		NEG		
	FLUID PROPE	RTIES	method	limit/base	e current	history1	history2
	Visc @ 100°C	cSt	ASTM D7279(m)	11.4	• 7.6		
	GRAPHS						
L-1.1	Iron (ppm)				Lead (ppm)		
	500 400 - Severe				200 Severe		
					50 - Severe		
	a 300 - Abnormal			41 1	Abaamaal		
	100						
	0			/24	24+0		
	Feb 15/24			Feb 15/24	Feb 15/24		
	Aluminum (ppm)				 Chromium (pp	m)	
	100 Severe				50 T 8mm		
	80						
	40 - Abnormal			E A	30 - Abnormal		
	20 -				10-		
	0			24	24+10		
	Feb 15/24			Feb15/24	Feb15/24		
	Copper (ppm)			LL.	^{⊥⊥} Silicon (ppm)		
	300				80 Severe		
	200				60-		
	Abnormal			mdd	40 Abnormal		
	100 -				20-		
	0			+			
	Feb 15/24			Feb15/24	Feb15/24		
	≝ ▲ Viscosity @ 100°C			9	Fuel Dilution		
		•			^{5.0} T		
	Abnormal				0.0		
	0 12 - Base 5 10 - Abnormal			tr e %	Severe		
	8				5.0 - Abnormal		
	6				0.0		
	Feb 15/24			Feb15/24	Feb 15/24		
Laboratory Sample No. Lab Number	: WearCheck - C8-117 : GFL0097577	5 Appleby Recei Teste	i ved :16 d :20	ngton, ON L 6 Feb 2024 0 Feb 2024	7L 5H9		onmental - 21 mondsey Roa Toronto, O
	: 5733285	Diam	nosed : 20) Feb 2024 -	Wee Davie		CA M4B 1

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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