

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id **9978** Component

Fluid

Transmission (Auto)

PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)

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

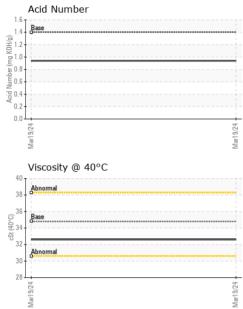
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112474		
Sample Date		Client Info		19 Mar 2024		
Machine Age	hrs	Client Info		122377		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>220	50		
Chromium	ppm	ASTM D5185(m)	>2	0		
Nickel	ppm	ASTM D5185(m)	>5	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	0		
Aluminum	ppm	ASTM D5185(m)	>75	17		
Lead	ppm	ASTM D5185(m)	>95	6		
Copper	ppm	ASTM D5185(m)	>60	26		
Tin	ppm	ASTM D5185(m)	>10	2		
Antimony	ppm	ASTM D5185(m)	>2	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)	78	46		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	0	9		
Calcium	ppm	ASTM D5185(m)	113	135		
Phosphorus	ppm	ASTM D5185(m)	222	211		
Zinc	ppm	ASTM D5185(m)		20		
Sulfur	ppm	ASTM D5185(m)	1326	1398		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7		
Sodium	ppm	ASTM D5185(m)		10		
Potassium	ppm	ASTM D5185(m)	>20	2		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.4	0.94		



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VISUAL



White Metal	scalar	Visual*	NONE		NONE		
Yellow Metal		Visual*	NONE		NONE		
Precipitate		Visual*	NONE		NONE		
Silt		Visual*	NONE		NONE		
			>0.1				
Free Water	scalar	Visual*			NEG		
FLUID PROPER	RTIES	method	limit/bas	se	current	history1	history2
Visc @ 40°C		ASTM D7279(m)	34.8		32.6		
SAMPLE IMAG	ES	method	limit/bas	se	current	history1	history2
				7			,
Color						no image	no image
Bottom						no image	no image
GRAPHS							
Iron (ppm)					Lead (ppm)		
DT				³⁰⁰ T			
) - O				200	7		
) - Abnormai				[±] 100 -	Abnormal		
) *			4	01	+		4
ar19/2			ar 1 9/2		ar 1 9/2		Mar19/24
—			×				ž
				6 -		m)	
Severe				_ 4	Severe		
0 - Abnormal				nd 2	Abnormal		
0			_	0			
9/24			9/24		9/24		9/24
Mar1			Mar1		Mar		Mar19/24
Copper (ppm)					Silicon (ppm)		
Severe			,-	¹⁰⁰ T			
0			111	50	Severe		
					Abnormal G		
2 ⁴			24 +	οL	- 47		50
ar19/.			ar19/,		arl 9/.		Mar19/2
							ž
, -				B H 1 5 -			
			7	2 1.3 E 1 0			
5 - Base Abnormal							
5							
Mar19/24			Mar19/24	ACIO	Mar1 9/24		Mar19/24
			1		2		1
	Visc @ 40°C SAMPLE IMAG Color Bottom GRAPHS Iron (ppm) Severe Abnomal HCG Betree Abnomal Copper (ppm) Severe Abnomal Copper (ppm)	Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar FLUID PROPERTIES Visc @ 40°C cSt SAMPLE IMAGES Color Bottom GRAPHS Iron (ppm) Severe Abnormal Copper (ppm) Severe Abnormal Copper (ppm) Severe Abnormal Copper (ppm)	Sand/Dirt scalar Visual* Appearance scalar Visual* Ddor scalar Visual* Emulsified Water scalar Visual* Free Water scalar Visual* FLUID PROPERTIES method Visc @ 40°C cSt ASTM D7279(m) SAMPLE IMAGES method Color Bottom GRAPHS Iron (ppm) Severe Abnormal Copper (ppm) Severe Abnormal Viscosity @ 40°C Viscosity @ 40°C	Sand/Dirt scalar Visual* NONE Appearance scalar Visual* NORML Emulsified Water scalar Visual* >0.1 Free Water scalar Visual* >0.1 Free Water scalar Visual* FLUID PROPERTIES method limit/bas Visc @ 40°C cSt ASTM D7279(m) 34.8 SAMPLE IMAGES method limit/bas Color Bottom GRAPHS Iron (ppm) Aluminum (ppm) Copper (ppm) Copper (ppm) Copper (ppm)	Sand/Dirt scalar Visual* NONE Appearance scalar Visual* NORML Dolor scalar Visual* NORML Emulsified Water scalar Visual* >0.1 Free Water scalar Visual* >0.1 FLUID PROPERTIES method limit/base Visc @ 40°C cSt ASTM D7279(m) 34.8 SAMPLE IMAGES method limit/base Color Bottom GRAPHS Iron (ppm) Anormal Anormal Viscosity @ 40°C Anormal Viscosity @ 40°C Anormal Viscosity @ 40°C Anormal Same Anormal Same An	Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Dodor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.1 NEG Free Water scalar Visual* >0.1 NEG Free Water scalar Visual* Scalar Visual* NEG FLUID PROPERTIES method limit/base current Visc @ 40°C cSt ASTM D7279(m) 34.8 32.6 SAMPLE IMAGES method limit/base current Color GRAPHS Iron (ppm) Aluminum (ppm) Aluminum (ppm) Copper (ppm) Silicon (ppm) Silicon (ppm) Silicon (ppm) Silicon (ppm) Silicon (ppm) Silicon (ppm) Silicon (ppm)	Sand/Dirt scalar Visual* NONE Appearance scalar Visual* NORML NORML Ddor scalar Visual* NORML NORML Ddor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.1 NEG Free Water scalar Visual* >0.1 NEG FLUID PROPERTIES method imit/base current history1 Visc @ 40°C cSt ASTMD279(m) 34.8 32.6 SAMPLE IMAGES method imit/base current history1 Color Imit/base current history1 Bottom Imit/base current history1 Aluminum (ppm) Imit/base current history1 Imit/base Imit/base current history1 Imit/base Imit/base current history1 Imit/base Imit/base current himit/base Imo

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Contact/Location: GFL Calgary - GFL550 Page 2 of 2