

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **5041** Component **Transmission (Auto)** Fluid **PETRO CANADA TEF 295 (--- 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.

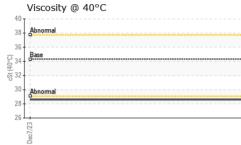
Fluid Condition

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0071443		
Sample Date		Client Info		07 Dec 2023		
Machine Age	mls	Client Info		41142		
Oil Age	mls	Client Info		41142		
Oil Changed		Client Info		Oil Added		
Sample Status				NORMAL		
CONTAMINAT	ΓION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>160	101		
Chromium	ppm	ASTM D5185m	>5	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>5	0		
Aluminum	ppm	ASTM D5185m	>50	31		
Lead	ppm	ASTM D5185m	>50	2		
Copper	ppm	ASTM D5185m	>225	44		
Tin	ppm	ASTM D5185m	>10	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	100	61		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		30		
				0		
Magnesium	ppm	ASTM D5185m		v		
Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	30	45		
Calcium			30 220	-		
•	ppm ppm	ASTM D5185m ASTM D5185m		45		
Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m	220	45 122		
Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	220 4	45 122 0		
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	220 4 1060	45 122 0 1576	 	
Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm NTS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	220 4 1060 limit/base	45 122 0 1576 current	 history1	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm vpm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	220 4 1060 limit/base >20	45 122 0 1576 current 8	 history1	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm NTS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	220 4 1060 limit/base >20	45 122 0 1576 current 8 8	 history1	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm NTS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	220 4 1060 limit/base >20 >20	45 122 0 1576 current 8 8 8 7	 history1 	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm vTS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	220 4 1060 <i>limit/base</i> >20 >20 <i>limit/base</i>	45 122 0 1576 current 8 8 8 7 current	 history1 history1	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm vTS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	220 4 1060 iimit/base >20 >20 iimit/base NONE	45 122 0 1576 current 8 8 8 7 current NONE	 history1 history1 	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm VTS ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	220 4 1060 220 >20 limit/base NONE NONE	45 122 0 1576 current 8 8 8 7 current NONE NONE	 history1 history1 history1	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm VTS ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	220 4 1060 >20 >20 limit/base NONE NONE NONE NONE	45 122 0 1576 current 8 8 8 7 current NONE NONE NONE NONE	 history1 history1 history1	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm vTS ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	220 4 1060 >20 >20 <u>limit/base</u> NONE NONE NONE NONE	45 122 0 1576 current 8 8 8 7 current NONE NONE NONE NONE NONE	 history1 history1 	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm vTS ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	220 4 1060 >20 >20 <u>limit/base</u> NONE NONE NONE NONE NONE NONE	45 122 0 1576 current 8 8 8 7 current NONE NONE NONE NONE NONE NONE	 history1 history1 history1 	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm pm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	220 4 1060 20 >20 20 <u>limit/base</u> NONE NONE NONE NONE NONE NONE NONE	45 122 0 1576 current 8 8 8 7 current NONE NONE NONE NONE NONE NONE NONE	 history1 history1 history1 	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	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 *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	220 4 1060 220 >20 imit/base >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	45 122 0 1576 current 8 8 8 7 Current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 history1 	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	220 4 1060 220 >20 imit/base >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	45 122 0 1576 current 8 8 8 7 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 -	 history2 history2 -



OIL ANALYSIS REPORT



	FLUID PROPER	TIES method	limit/base	current	history1	history2
	Visc @ 40°C	cSt ASTM D445	34.3	28.6		
	SAMPLE IMAGE	S method	limit/base	current	history1	history2
	Color			no image	no image	no image
Dec7/23	Bottom			no image	no image	no image
	GRAPHS					
HIG 	Ferrous Alloys		Dec)73			
Laboratory Sample No.	Viscosity @ 40°C	cieved : 20	EZ/2990 EZ/2990 ery, NC 2751 Dec 2023	3		SB370 - Alton orth Alby Road Godfrey, II
Lab Number Unique Number Test Package		agnostician : Doi	Dec 2023 n Baldridge 9.		Conta	Godfrey, IL US 62035 ct: Chad Ingold ois-central.com

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)

Certificate L2367

F:

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