

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id DT823 Component

Fluid

Front Differential

PETRO CANADA TRAXON SYNTHETIC 75W90 (4 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 oil.

Fluid Condition

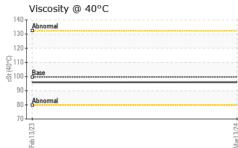
The condition of the oil is acceptable for the time in service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113151	PCA0091204	
Sample Date		Client Info		13 Mar 2024	13 Feb 2023	
Machine Age	mls	Client Info		75265	24693	
Oil Age	mls	Client Info		75265	24693	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>1200	176	148	
Chromium	ppm	ASTM D5185m	>8	1	1	
Nickel	ppm	ASTM D5185m	>20	4	7	
Titanium	ppm	ASTM D5185m	>4	0	0	
Silver	ppm	ASTM D5185m		<1	<1	
Aluminum	ppm	ASTM D5185m	>30	3	2	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>50	<1	1	
Tin	ppm	ASTM D5185m	>5	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	328	145	172	
Barium	ppm	ASTM D5185m	1	<1	1	
Molybdenum	ppm	ASTM D5185m		0	1	
	ppm	ACTIVI DOTOCITI		•	1	
-	ppm	ASTM D5185m		3	3	
Manganese			1	-		
Manganese Magnesium	ppm	ASTM D5185m	1 7	3	3	
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m		3 10	3 8	
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	7	3 10 39	3 8 44	
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	7 1145	3 10 39 1060	3 8 44 974	
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	7 1145 3	3 10 39 1060 17	3 8 44 974 22	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	7 1145 3 17909	3 10 39 1060 17 28196	3 8 44 974 22 25984	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	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	3 10 39 1060 17 28196 current	3 8 44 974 22 25984 history1	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ypm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	7 1145 3 17909 limit/base >230	3 10 39 1060 17 28196 current 146	3 8 44 974 22 25984 history1 116	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ypm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	7 1145 3 17909 limit/base >230	3 10 39 1060 17 28196 <u>current</u> 146 3	3 8 44 974 22 25984 history1 116 4	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ypm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	7 1145 3 17909 limit/base >230 >20	3 10 39 1060 17 28196 <u>current</u> 146 3 2	3 8 44 974 22 25984 history1 116 4 1	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm VTS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	7 1145 3 17909 Imit/base >230 >20 Imit/base	3 10 39 1060 17 28196 <u>current</u> 146 3 2 2 <u>current</u>	3 8 44 974 22 25984 history1 116 4 1 1 history1	 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm vTS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	7 1145 3 17909 limit/base >230 >20 limit/base NONE	3 10 39 1060 17 28196 <u>current</u> 146 3 2 2 <u>current</u> NONE NONE NONE	3 8 44 974 22 25984 history1 116 4 1 1 history1 NONE NONE NONE NONE	 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ypm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XSTM D5185m *Visual	7 1145 3 17909 imit/base >230 >20 imit/base NONE NONE	3 10 39 1060 17 28196 <u>current</u> 146 3 2 2 <u>current</u> NONE NONE	3 8 44 974 22 25984 history1 116 4 1 1 history1 NONE NONE	 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ypm ypm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	7 1145 3 17909 imit/base >230 >20 imit/base NONE NONE NONE NONE	3 10 39 1060 17 28196 <u>current</u> 146 3 2 2 <u>current</u> NONE NONE NONE	3 8 44 974 22 25984 history1 116 4 1 1 history1 NONE NONE NONE NONE	 history2 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ypm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Yisual *Visual *Visual *Visual	7 1145 3 17909 imit/base >230 imit/base NONE NONE NONE NONE	3 10 39 1060 17 28196 current 146 3 2 current NONE NONE NONE NONE NONE	3 8 44 974 22 25984 history1 116 4 1 1 history1 NONE NONE NONE NONE NONE	 history2 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ypm 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 *Visual	7 1145 3 17909 Imit/base >230 Imit/base NONE NONE NONE NONE NONE NONE	3 10 39 1060 17 28196 current 146 3 2 current NONE NONE NONE NONE NONE NONE NONE	3 8 44 974 22 25984 116 116 4 1 1 NONE NONE NONE NONE NONE NONE NONE	 history2 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	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 *Visual *Visual *Visual	7 1145 3 17909 Imit/base >230 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	3 10 39 1060 17 28196 current 146 3 2 current NONE NONE NONE NONE NONE NONE NONE NONE	3 8 44 974 22 25984 history1 116 4 1 1 history1 NONE NONE NONE NONE NONE NONE NONE NON	 history2 history2 history2
Manganese Magnesium 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 ppm ppm ppm	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	7 1145 3 17909 Imit/base >230 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	3 10 39 1060 17 28196 current 146 3 2 current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	3 8 44 974 22 25984 history1 116 4 1 1 NONE NONE NONE NONE NONE NONE NONE	 history2 history2
Manganese Magnesium 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 ppm scalar 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 Imit/base >230 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	3 10 39 1060 17 28196 current 146 3 2 current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	3 8 44 974 22 25984 116 4 1 1 1 10 116 4 1 1 NONE NONE NONE NONE NONE NONE NONE	 history2 history2

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OIL ANALYSIS REPORT



Visc @ 40°C	cSt ASTM D	445 99.6	96.0	history1 95.9	
SAMPLE IMAG				history1	histor
	20				
Color			no image	no image	no imag
				Ū	
Mar13/24					
Bottom			no image	no image	no imag
GRAPHS					
Ferrous Alloys					
160 - iron 140 - iron iron					
140					
E ¹⁰⁰					
80					
40					
20					
13/2 Eep13/2		Mar13/24			
		Mar			
Non-ferrous Metals	5				
9					
7					
6 - 틙 5 -					
4					
3 2					
Feb 13/23 - c		Mar13/24			
		Mar			
Viscosity @ 40°C					
130 - Abnormal					
130 - Abnormal					
120					
130					
130 120 5 5 110 30 90					
120 - 20 110 - \$\$ 100 - Base					
130 120 120 120 3100 Base 90 80 Abnormal		324			
120 2010 3100 90 80 Abnormal		Mar13.24			
120 20110 30 Base 30 Abnormal 70	Madison Ave. 0		NW WH	ITE & CO - ANDE	RSON DIVI
aboratory : WearCheck USA - 501 Sample No. : PCA0113151	Received	Cary, NC 27513 : 26 Mar 2024	NW WH	2	605 RIVEF
aboratory : WearCheck USA - 501		Cary, NC 27513		2	



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