

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 2026857

Component Rear Differential

Fluid PETRO CANADA TRAXON SYNTHETIC 75W90 (--- QTS)

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.

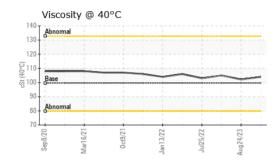
Fluid Condition

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

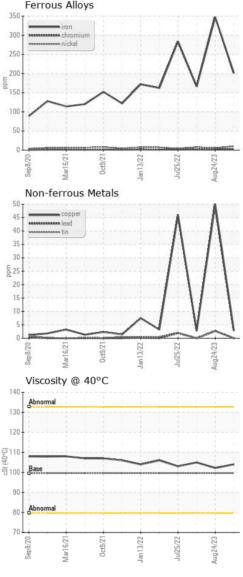
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113251	PCA0104342	PCA0099479
Sample Date		Client Info		27 Nov 2023	24 Aug 2023	21 May 2023
Machine Age	mls	Client Info		0	0	212675
Oil Age	mls	Client Info		251046	20000	212675
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	201	347	166
Chromium	ppm	ASTM D5185m	>10	2	3	2
Nickel	ppm	ASTM D5185m	>10	10	6	8
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	2	3
Lead	ppm	ASTM D5185m	>25	0	3	0
Copper	ppm	ASTM D5185m	>100	3	50	3
Tin	ppm	ASTM D5185m	>10	0	3	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	328	306	171	304
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m		<1	1	0
Manganese	ppm	ASTM D5185m		13	12	12
Magnesium	ppm	ASTM D5185m	1	1	12	2
	1-1-			40		
•	maa	ASTM D5185m	7	12	20	14
Calcium	ppm ppm		7 1145	12 1341	20 1268	
Calcium Phosphorus	ppm	ASTM D5185m	1145	1341	1268	1410
Calcium						
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	1145 3	1341 0	1268 23	1410 12
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m	1145 3 17909	1341 0 24752	1268 23 25660	1410 12 23530
Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	1145 3 17909 limit/base	1341 0 24752 current	1268 23 25660 history1	1410 12 23530 history2 33
Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon	ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	1145 3 17909 limit/base >75	1341 0 24752 current 41	1268 23 25660 history1 49	1410 12 23530 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1145 3 17909 limit/base >75	1341 0 24752 current 41 5	1268 23 25660 history1 49 9	1410 12 23530 history2 33 7
Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	1145 3 17909 <i>limit/base</i> >75 >20	1341 0 24752 current 41 5 3	1268 23 25660 history1 49 9 3	1410 12 23530 history2 33 7 2
Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1145 3 17909 limit/base >75 >20 limit/base	1341 0 24752 current 41 5 3 current	1268 23 25660 history1 49 9 3 3 history1	1410 12 23530 history2 33 7 2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm TS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	1145 3 17909 imit/base >75 >20 imit/base NONE	1341 0 24752 current 41 5 3 3 current NONE	1268 23 25660 history1 49 9 3 3 history1 NONE	1410 12 23530 history2 33 7 2 2 history2 NONE
Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm TS ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	1145 3 17909 imit/base >75 >20 imit/base NONE NONE	1341 0 24752 current 41 5 3 current NONE NONE	1268 23 25660 history1 49 9 3 3 history1 NONE NONE	1410 12 23530 history2 33 7 2 history2 NONE NONE
Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	1145 3 17909 imit/base >75 >20 imit/base NONE NONE NONE NONE	1341 0 24752 current 41 5 3 current NONE NONE NONE NONE	1268 23 25660 history1 49 9 3 3 history1 NONE NONE NONE	1410 12 23530 history2 33 7 2 history2 NONE NONE NONE NONE
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	1145 3 17909 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE	1341 0 24752 current 41 5 3 current NONE NONE NONE NONE NONE	1268 23 25660 history1 49 9 3 3 history1 NONE NONE NONE NONE NONE	1410 12 23530 history2 33 7 2 history2 NONE NONE NONE NONE NONE
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	1145 3 17909 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE	1341 0 24752 current 41 5 3 3 current NONE NONE NONE NONE LIGHT	1268 23 25660 history1 49 9 3 3 history1 NONE NONE NONE NONE NONE NONE	1410 12 23530 history2 33 7 2 33 7 2 NONE NONE NONE NONE NONE NONE
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	1145 3 17909 imit/base >75 20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	1341 0 24752 411 5 3 Current NONE NONE NONE NONE NONE LIGHT NONE	1268 23 25660 49 9 3 3 <u>history1</u> NONE NONE NONE NONE NONE NONE NONE	1410 12 23530 history2 33 7 2 33 7 2 NONE NONE NONE NONE NONE NONE NONE
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	1145 3 17909 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE NONE	1341 0 24752 41 5 3 3 current NONE NONE NONE LIGHT NONE LIGHT NONE NONE	1268 23 25660 49 9 3 3 <u>history1</u> NONE NONE NONE NONE NONE NONE NONE NON	1410 12 23530 history2 33 7 2 NONE NONE NONE NONE NONE NONE NONE NO
Calcium Phosphorus Zinc Sulfur CONTAMINAN ^T Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	1145 3 17909 >75 >20 NONE NONE NONE NONE NONE NONE NONE NON	1341 0 24752 current 41 5 3 current NONE NONE NONE NONE LIGHT NONE LIGHT NONE NORML	1268 23 25660 49 9 3 3 NONE NONE NONE NONE NONE NONE NONE	1410 12 23530 history2 33 7 2 NONE NONE NONE NONE NONE NONE NONE NO



OIL ANALYSIS REPORT



	IES method				history2
Visc @ 40°C c	St ASTM D445	99.6	104	102.2	105
SAMPLE IMAGES	S method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image
GRAPHS				2	





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0113251 Recieved : 15 Dec 2023 Diagnosed : 20 Dec 2023 :06037114 : 10792343 Unique Number Diagnostician : Jonathan Hester Test Package : FLEET

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)

US 19947

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