

OIL ANALYSIS REPORT

Sample Rating Trend





Front Differential

PETRO CANADA TRAXON SYNTHETIC 75W90 (25 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.

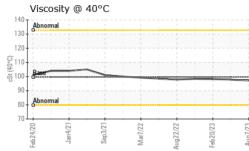
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0103344	PCA0095552	PCA0092014
Sample Date		Client Info		07 Aug 2023	22 May 2023	20 Feb 2023
Machine Age	mls	Client Info		700377	681994	657554
Oil Age	mls	Client Info		700377	681994	657554
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS	S .	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	269	262	255
Chromium	ppm	ASTM D5185m	>10	2	2	2
Nickel	ppm	ASTM D5185m	>10	<1	<1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	4	4
Lead	ppm	ASTM D5185m	>25	2	1	2
Copper	ppm	ASTM D5185m		33	32	30
Tin	ppm	ASTM D5185m	>10	2	3	3
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	328	174	194	188
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		4	4	4
Magnesium	ppm	ASTM D5185m	1	0	4	4
Calcium	ppm	ASTM D5185m		0	13	12
	1-1-			1405	1459	1375
Phosphorus	maa	ASTIVI UST85M	1140			
•	ppm ppm	ASTM D5185m	1145 3			21
Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	3 17909	0 27610	18 25219	21 25170
Zinc	ppm ppm	ASTM D5185m	3	0	18	
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	3 17909	0 27610	18 25219	25170
Zinc Sulfur CONTAMINAN Silicon	ppm ppm TS ppm	ASTM D5185m ASTM D5185m method	3 17909 limit/base	0 27610 current	18 25219 history1	25170 history2
Zinc Sulfur CONTAMINAN	ppm ppm TS	ASTM D5185m ASTM D5185m method ASTM D5185m	3 17909 limit/base >75	0 27610 current 51	18 25219 history1 44	25170 history2 38
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	3 17909 limit/base >75	0 27610 current 51 2	18 25219 history1 44 3	25170 history2 38 4
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	3 17909 limit/base >75 >20	0 27610 current 51 2 0	18 25219 history1 44 3 <1	25170 history2 38 4 <1
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	3 17909 limit/base >75 >20 limit/base	0 27610 current 51 2 0 current	18 25219 history1 44 3 <1 history1	25170 history2 38 4 <1 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm TS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	3 17909 limit/base >75 >20 limit/base NONE	0 27610 current 51 2 0 current NONE	18 25219 history1 44 3 <1 +istory1 NONE	25170 history2 38 4 <1 history2 NONE
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm TS ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	3 17909 imit/base >75 >20 imit/base NONE NONE	0 27610 current 51 2 0 current NONE NONE	18 25219 history1 44 3 <1 istory1 NONE NONE	25170 history2 38 4 <1 history2 NONE NONE
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm TS ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	3 17909 imit/base >75 >20 imit/base NONE NONE NONE	0 27610 current 51 2 0 current NONE NONE NONE	18 25219 history1 44 3 <1 history1 NONE NONE NONE NONE	25170 history2 38 4 <1 history2 NONE NONE NONE
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm TS ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	3 17909 Imit/base >75 >20 Imit/base NONE NONE NONE NONE	0 27610 current 51 2 0 current NONE NONE NONE NONE	18 25219 history1 44 3 <1 history1 NONE NONE NONE NONE NONE	25170 history2 38 4 <1 history2 NONE NONE NONE NONE NONE
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	3 17909 Imit/base >75 >20 Imit/base NONE NONE NONE NONE NONE NONE	0 27610 current 51 2 0 current NONE NONE NONE NONE NONE NONE	18 25219 history1 44 3 <1 history1 NONE NONE NONE NONE NONE NONE	25170 history2 38 4 <1 history2 NONE NONE NONE NONE NONE NONE
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	3 17909 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE NONE	0 27610 current 51 2 0 current NONE NONE NONE NONE NONE NONE NONE	18 25219 history1 44 3 <1 history1 NONE NONE NONE NONE NONE NONE NONE	25170 history2 38 4 <1 history2 NONE NONE NONE NONE NONE NONE NONE
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	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	3 17909 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	0 27610 current 51 2 0 current NONE NONE NONE NONE NONE NONE NONE NON	18 25219 history1 44 3 <1 history1 NONE NONE NONE NONE NONE NONE NONE NON	25170 history2 38 4 <1 NONE NONE NONE NONE NONE NONE NONE NON
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	3 17909 >75 >20 <u>limit/base</u> >20 <u>limit/base</u> NONE NONE NONE NONE NONE NONE NONE NON	0 27610 current 51 2 0 current NONE NONE NONE NONE NONE NONE NONE NON	18 25219 history1 44 3 <1 NONE NONE NONE NONE NONE NONE NONE NON	25170 history2 38 4 <1 NONE NONE NONE NONE NONE NONE NONE NON



OIL ANALYSIS REPORT



	FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	99.6	97.2	97.8	98.2
	SAMPLE IMA	GES	method	limit/base	current	history1	history2
/23 /23	Color				no image	no image	no image
Feb20/23 Aug7/23	Bottom				no image	no image	no image
udd	GRAPHS Ferrous Alloys	alls	2222 Aug22/22 Aug22/22 Feb20/23 Feb20/24 Feb20/2	Aug7/23			
Laboratory Sample No. Lab Number Unique Number	Viscosity @ 40°C Viscosity @ 40°C Abnormal 100 90 40 100 100 100 100 100 100 100	Mar7/22	l :11 ed :14	Aug7/23		GEOF	SAVANAH RD RGETOWN, DE US 19947
	: FLEET contact Customer Ser			Contact: ROBERT LOCKWOOD Robert.Lockwood@Perdue.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

T:

F: