

OIL ANALYSIS REPORT

Sample Rating Trend





Component 1 Differential

Fluid

PETRO CANADA TRAXON SYNTHETIC 75W90 (--- 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

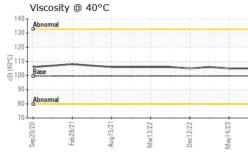
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM		method		current		history2
			iiiiii/base			
Sample Number		Client Info		PCA0103352	PCA0099315	PCA0092856
Sample Date		Client Info		30 Jul 2023	14 May 2023	25 Feb 2023
	mls	Client Info		372289	351552	330597
- 3-	mls	Client Info		372289	351552	21287
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	DN	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	288	283	274
Chromium	ppm	ASTM D5185m	>10	2	2	2
Nickel	ppm	ASTM D5185m	>10	6	6	6
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	3
Lead	ppm	ASTM D5185m	>25	3	2	4
	ppm	ASTM D5185m	>100	57	60	56
	ppm	ASTM D5185m	>10	4	3	3
	ppm	ASTM D5185m		0	0	<1
	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	328	140	222	228
Barium	ppm	ASTM D5185m	1	<1	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		14	14	13
Magnesium	ppm	ASTM D5185m	1	2	2	3
	nnm	ASTM D5185m	7	13	9	13
Calcium	ppm					
	ppm ppm	ASTM D5185m	1145	1343	1337	1301
Phosphorus	ppm		1145 3	1343 22		1301 24
Phosphorus Zinc		ASTM D5185m ASTM D5185m ASTM D5185m			1337 13 25527	
Phosphorus Zinc	ppm ppm ppm	ASTM D5185m	3	22	13	24
Phosphorus Zinc Sulfur CONTAMINANT	ppm ppm ppm	ASTM D5185m ASTM D5185m	3 17909	22 21438	13 25527	24 21610
Phosphorus Zinc Sulfur CONTAMINANT Silicon	ppm ppm ppm S	ASTM D5185m ASTM D5185m method	3 17909 limit/base	22 21438 current	13 25527 history1	24 21610 history2
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	3 17909 limit/base >75	22 21438 current 53	13 25527 history1 48	24 21610 history2 46
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium	ppm ppm ppm S ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	3 17909 limit/base >75	22 21438 current 53 8	13 25527 history1 48 8	24 21610 history2 46 9
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL	ppm ppm ppm S ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	3 17909 limit/base >75 >20	22 21438 current 53 8 2	13 25527 history1 48 8 2	24 21610 history2 46 9 2
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm S ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m method	3 17909 limit/base >75 >20 limit/base	22 21438 current 53 8 2 2 current	13 25527 history1 48 8 2 2 history1	24 21610 history2 46 9 2 2 history2
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm S 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	22 21438 current 53 8 2 2 current NONE	13 25527 history1 48 8 2 2 history1 NONE	24 21610 history2 46 9 2 history2 NONE
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm S ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	3 17909 imit/base >75 >20 imit/base NONE NONE	22 21438 current 53 8 2 2 current NONE NONE	13 25527 history1 48 8 2 2 history1 NONE NONE	24 21610 history2 46 9 2 history2 NONE NONE
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm S S 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 NONE	22 21438 current 53 8 2 2 current NONE NONE NONE	13 25527 history1 48 8 2 2 history1 NONE NONE NONE	24 21610 history2 46 9 2 2 history2 NONE NONE NONE NONE
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm S 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	3 17909 Imit/base >75 >20 Imit/base NONE NONE NONE NONE NONE NONE	22 21438 current 53 8 2 2 current NONE NONE NONE NONE	13 25527 history1 48 8 2 2 history1 NONE NONE NONE NONE NONE	24 21610 history2 46 9 2 2 history2 NONE NONE NONE NONE NONE
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm S ppm 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	22 21438 current 53 8 2 current NONE NONE NONE NONE NONE NONE NONE	13 25527 history1 48 8 2 2 history1 NONE NONE NONE NONE NONE NONE	24 21610 history2 46 9 2 history2 NONE NONE NONE NONE NONE NONE
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm S S ppm ppm ppm scalar 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 *Visual	3 17909 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	22 21438 current 53 8 2 2 current NONE NONE NONE NONE NONE NONE NONE NON	13 25527 history1 48 8 2 2 history1 NONE NONE NONE NONE NONE NONE NONE	24 21610 history2 46 9 2 history2 NONE NONE NONE NONE NONE NONE NONE NON
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm S S ppm ppm ppm scalar scalar 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 *Visual *Visual	3 17909 imit/base >75 >20 imit/base >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	22 21438 current 53 8 2 current NONE NONE NONE NONE NONE NONE NONE NON	13 25527 history1 48 8 2 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	24 21610 history2 46 9 2 history2 NONE NONE NONE NONE NONE NONE NONE NON
Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm ppm S S ppm ppm ppm scalar 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 *Visual	3 17909 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	22 21438 current 53 8 2 2 current NONE NONE NONE NONE NONE NONE NONE NON	13 25527 history1 48 8 2 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	24 21610 history2 46 9 2 history2 NONE NONE NONE NONE NONE NONE NONE NON



OIL ANALYSIS REPORT

FLUID PROPERTIES method limit/base



		Visc @ 40°C	cSt	ASTM D445	99.6	105	105	106
		SAMPLE IM		method	limit/base	current	history1	history2
			AGEO	method		ounchi		motoryz
		Color				no image	no image	no image
Aug 15/21 - Mar13/22 -	Dec12/22	Bottom				no image	no image	no image
		GRAPHS						
		Non-ferrous Ma	1/2/SI Dny etals	\sim	SZYFIYEM			
		Viscosity @ 40 ⁴		Dec12/22 -				
		Abnormal 130 -						
		120 () 110 () 100 Base 90 80 Abnormal						
		70 02 22	5/21	/22	/23			
		Sep20/20 Feb28/21	Aug15/21 Mar13/22	Dec12/22	May 14/23			
	s this sample report	er : 10780803	Receive Diagnos Diagnos ervice at 1-8	d : 11 sed : 14 tician : Sea 800-237-136	3 PERDUE FARMS - GEORGETOWN 20621 SAVANAH RD GEORGETOWN, DE US 19947 Contact: ROBERT LOCKWOOD Robert.Lockwood@Perdue.com T:			
		ecifications are based o				JCGM 106:2012	?)	F:

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