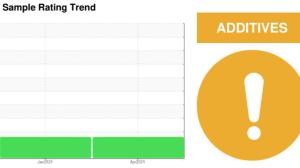


OIL ANALYSIS REPORT



Machine Id **TTH037**

Right Final Drive

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

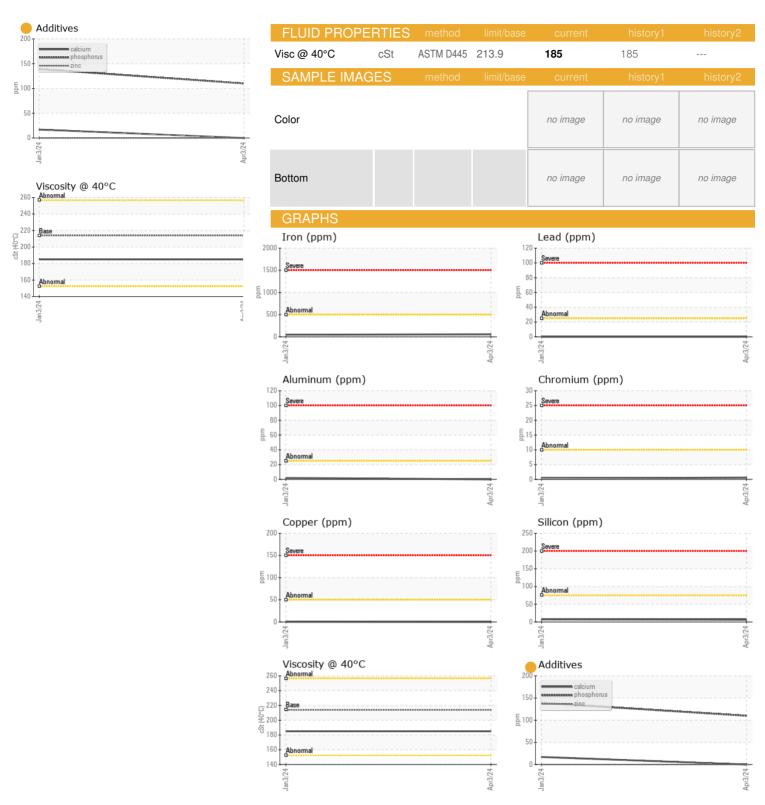
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The condition of the oil is acceptable for the time in service.

GAL)			Jan2024	Apr2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
		Client Info		PCA0086983	PCA0070634	
Sample Number		Client Info		03 Apr 2024	03 Jan 2024	
Sample Date	bro	Client Info		801		
Machine Age	hrs				502	
Oil Age	hrs	Client Info		502	502	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				ATTENTION	ATTENTION	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METAL	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>500	57	47	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Γitanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm		>25	0	2	
_ead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm		>50	0	<1	
Fin		ASTM D5185m	>10	<1	0	
	ppm		>10			
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	0	
Barium	ppm	ASTM D5185m	0	9	0	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m	0	2	<1	
Magnesium	ppm	ASTM D5185m	9	0	<1	
Calcium	ppm	ASTM D5185m	3114	0	1 7	
Phosphorus		AOTH DE LOE	1099	110	139	
	ppm	ASTM D5185m		<u> </u>	100	
	ppm			0	0	
Zinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1245 7086			
Zinc	ppm	ASTM D5185m	1245	0	0	
Zinc Sulfur CONTAMINAN	ppm ppm	ASTM D5185m ASTM D5185m	1245 7086 limit/base	0 16466	0 14428	
Zinc Sulfur CONTAMINAN Silicon	ppm	ASTM D5185m ASTM D5185m method	1245 7086 limit/base	0 16466 current	0 14428 history1	
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm NTS ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	1245 7086 limit/base >75	0 16466 current	0 14428 history1 7	history2
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm NTS ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1245 7086 limit/base >75	0 16466 current 6 3	0 14428 history1 7 0	 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm NTS ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	1245 7086 limit/base >75 >20	0 16466 current 6 3 0	0 14428 history1 7 0 2	history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm NTS ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1245 7086 limit/base >75 >20 limit/base	0 16466 current 6 3 0 current	0 14428 history1 7 0 2 history1	history2 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm NTS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	1245 7086 limit/base >75 >20 limit/base NONE	0 16466 current 6 3 0 current NONE	0 14428 history1 7 0 2 history1 NONE	history2 history2
Zinc Gulfur CONTAMINAN Gilicon Godium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	1245 7086 limit/base >75 >20 limit/base NONE NONE	0 16466 current 6 3 0 current NONE	0 14428 history1 7 0 2 history1 NONE	history2 history2
Zinc Gulfur CONTAMINAN Gilicon Godium Potassium VISUAL White Metal Yellow Metal Precipitate Gilt	ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m wethod *Visual *Visual *Visual	1245 7086 limit/base >75 >20 limit/base NONE NONE NONE	0 16466 current 6 3 0 current NONE NONE	0 14428 history1 7 0 2 history1 NONE NONE	history2 history2
Zinc Gulfur CONTAMINAN Gilicon Godium Potassium VISUAL White Metal Yellow Metal Precipitate Gilt Debris	ppm ppm NTS ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	1245 7086 limit/base >75 >20 limit/base NONE NONE NONE NONE NONE NONE	0 16466 current 6 3 0 current NONE NONE NONE NONE NONE NONE NONE	0 0 14428 history1 7 0 2 history1 NONE NONE NONE NONE NONE NONE	history2 history2 history2
Zinc Gulfur CONTAMINAN Silicon Godium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Gand/Dirt	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m wethod *Visual	1245 7086 limit/base >75 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	0 16466 current 6 3 0 current NONE NONE NONE NONE NONE NONE NONE NON	0 0 14428 history1 7 0 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	history2 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m wethod *Visual	1245 7086 limit/base >75 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	0 0 16466 current 6 3 0 current NONE NONE NONE NONE NONE NONE NONE NON	0 0 14428 history1 7 0 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	history2 history2
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 scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m wethod *Visual *Visual	1245 7086 limit/base >75 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	0 0 16466 current 6 3 0 current NONE NONE NONE NONE NONE NONE NONE NON	o 14428 history1 7 0 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	history2 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m wethod *Visual	1245 7086 limit/base >75 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	0 0 16466 current 6 3 0 current NONE NONE NONE NONE NONE NONE NONE NON	0 0 14428 history1 7 0 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	history2 history2 history2



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: PCA0086983 Lab Number : 06142535

Unique Number : 10967343 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 08 Apr 2024 **Tested** : 09 Apr 2024 Diagnosed

: 11 Apr 2024 - Don Baldridge

Kemp Quarries - River Valley - Arkoma 12971 HWY 9a Shawnee, OK US 74804

Contact: arkomashop@kempquarries.net

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)

Report Id: KEMSHA [WUSCAR] 06142535 (Generated: 04/11/2024 14:22:36) Rev: 1

Submitted By:

T:

F: