



Area
Inactive Off Road
Machine Id
E00
Component
Hydraulic System
Fluid
PETRO CANADA DURATRAN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0109743	PCA0109812	PCA0098472
Sample Date		Client Info		16 Jan 2024	07 Nov 2023	07 Aug 2023
Machine Age	hrs	Client Info		32373	32373	32373
Oil Age	hrs	Client Info		32373	32373	32373
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	28	35	30
Chromium	ppm	ASTM D5185m	>10	3	2	2
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	3	1
Lead	ppm	ASTM D5185m	>10	0	<1	3
Copper	ppm	ASTM D5185m	>75	12	14	15
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

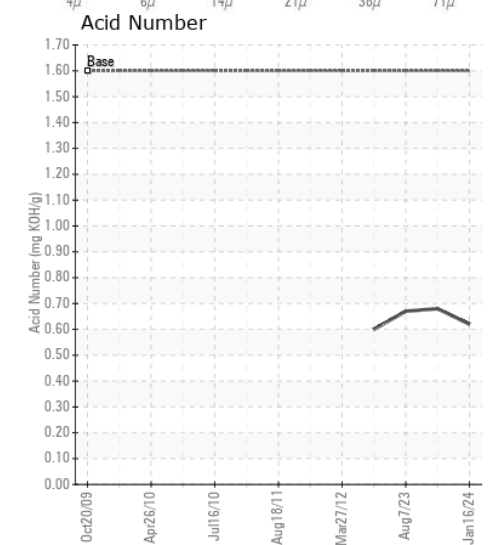
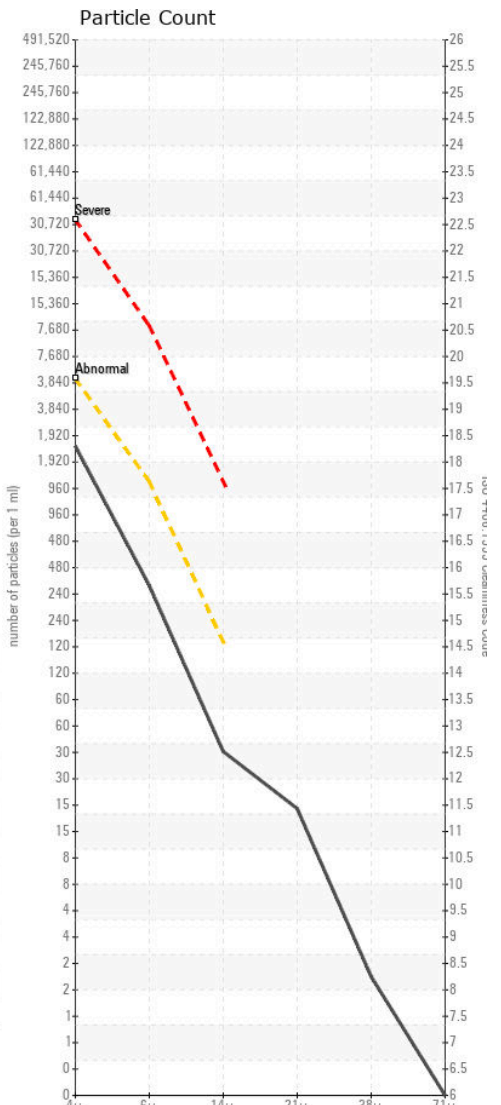
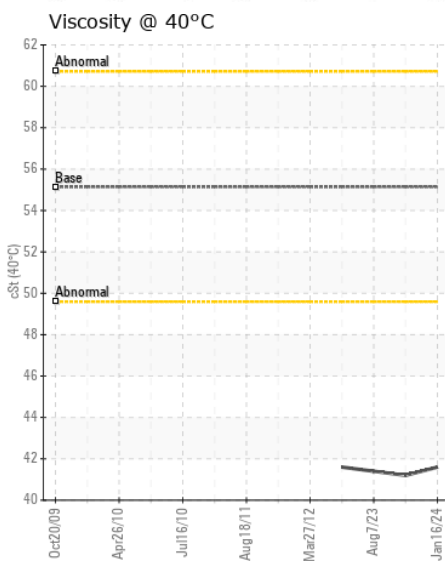
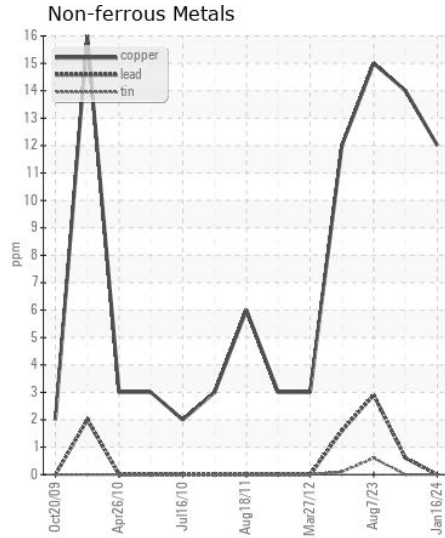
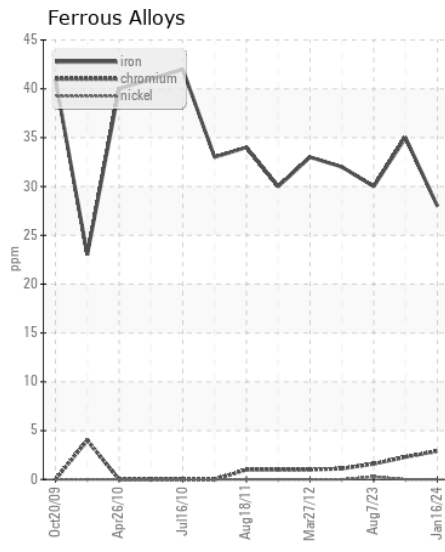
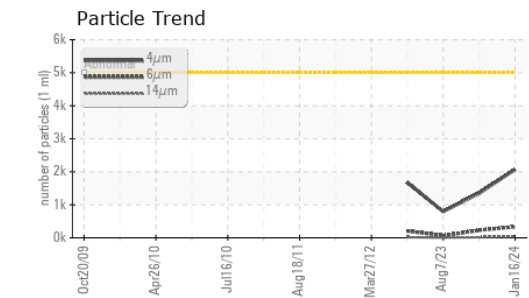
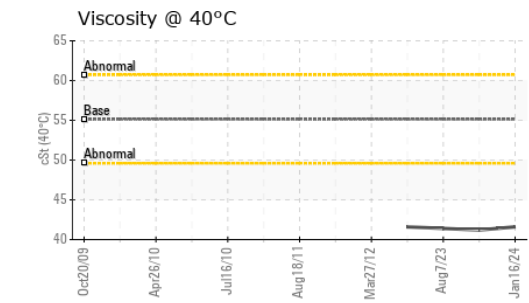
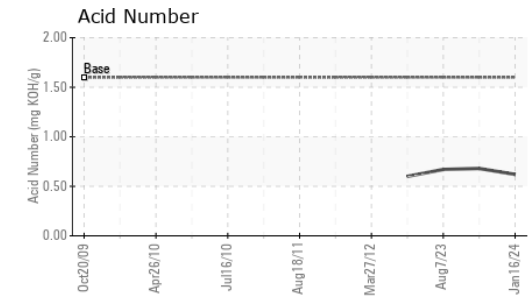
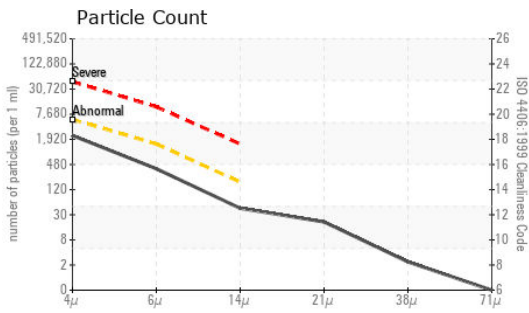
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	4	4	4
Potassium	ppm	ASTM D5185m	>20	0	3	4
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	2072	1349	794
Particles >6µm		ASTM D7647	>1300	334	227	69
Particles >14µm		ASTM D7647	>160	38	17	4
Particles >21µm		ASTM D7647	>40	18	6	0
Particles >38µm		ASTM D7647	>10	2	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	18/15/11	17/13/9
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	0	7
Boron	ppm	ASTM D5185m	110	5	6	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	1	2	3
Manganese	ppm	ASTM D5185m	1	1	0	2
Magnesium	ppm	ASTM D5185m	13	16	15	11
Calcium	ppm	ASTM D5185m	3610	442	343	257
Phosphorus	ppm	ASTM D5185m	1192	552	552	500
Zinc	ppm	ASTM D5185m	1455	726	784	657
Sulfur	ppm	ASTM D5185m	2641	1587	1956	1859
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	0.62	0.68	0.67
Visc @ 40°C	cSt	ASTM D445	55.14	41.6	41.2	41.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0109743 **Received** : 19 Jan 2024
Lab Number : 06065562 **Diagnosed** : 23 Jan 2024
Unique Number : 10836944 **Diagnostician** : Don Baldrige
Test Package : MOB 2

G LOPES CONSTRUCTION
 565 WINTHROP ST
 TAUNTON, MA
 US 02780
 Contact: BUTCH MCGRATH
 bmcgrath@glopes.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)

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F: