



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
G.LOPES CONSTRUCTION INC./Off-Road
Machine Id
SL69
Component
Hydraulic System
Fluid
PETRO CANADA DURATRAN (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0122914	PCA0083339	PCA18305019
Sample Date		Client Info		24 Jun 2024	12 Dec 2022	13 Jul 2018
Machine Age	hrs	Client Info		3005	2414	1040
Oil Age	hrs	Client Info		3005	2414	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

The iron level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	▲ 38	7	17
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	6	<1	1
Lead	ppm	ASTM D5185m	>10	2	<1	4
Copper	ppm	ASTM D5185m	>75	27	2	10
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

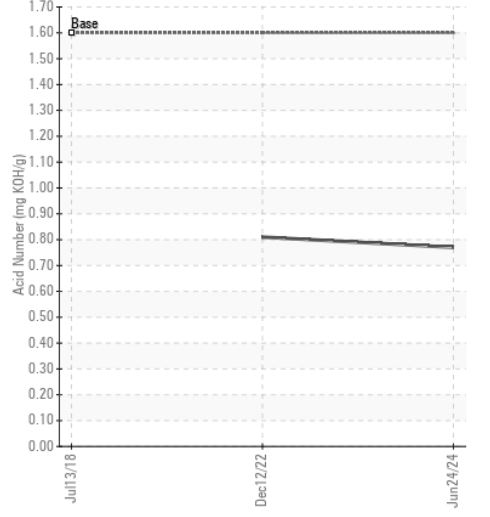
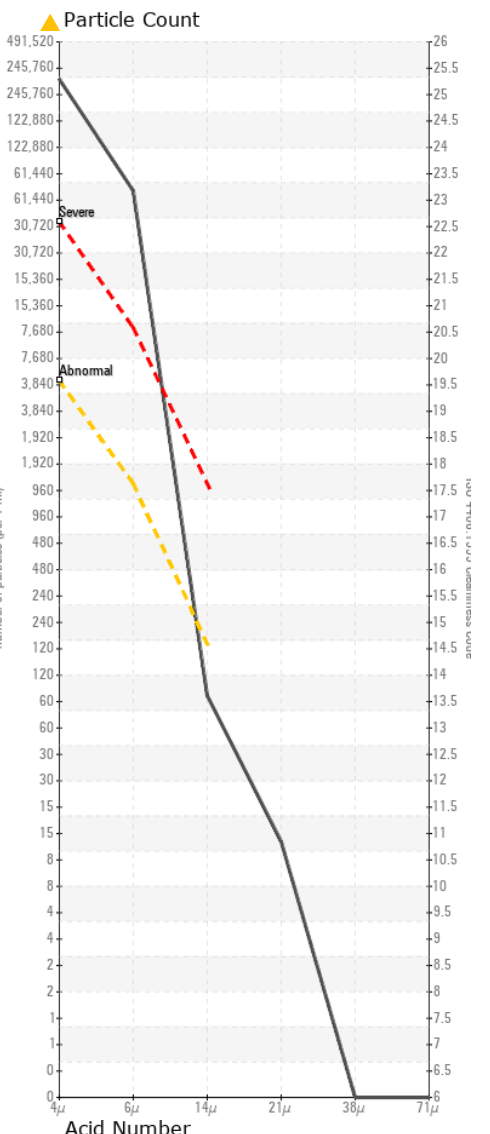
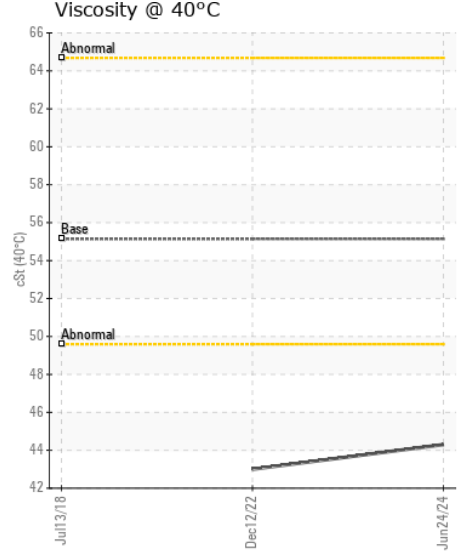
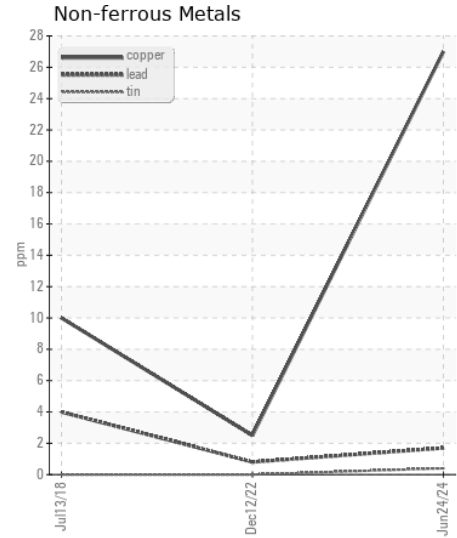
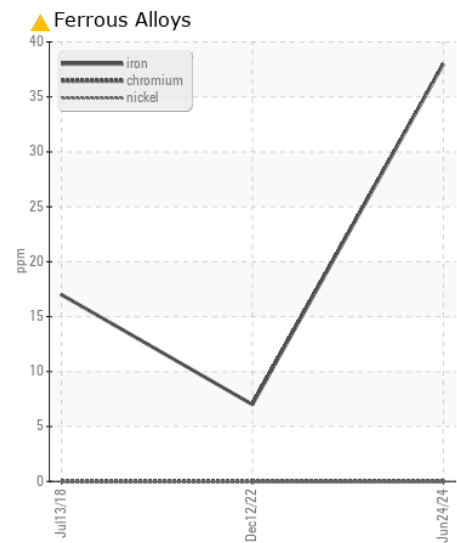
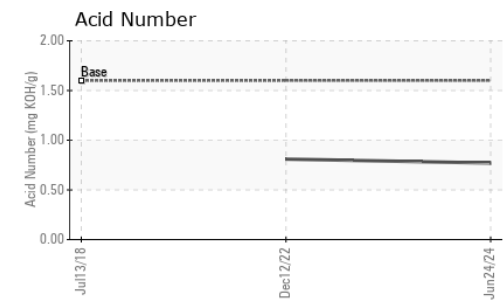
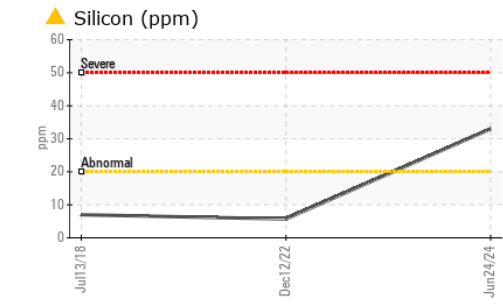
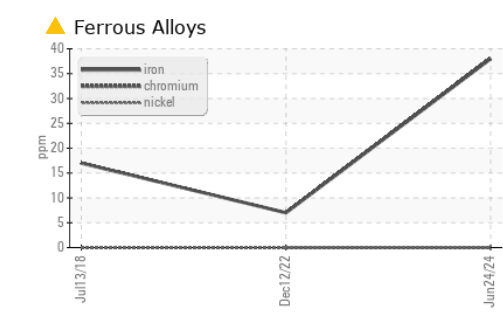
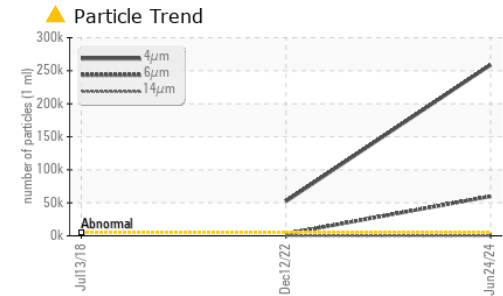
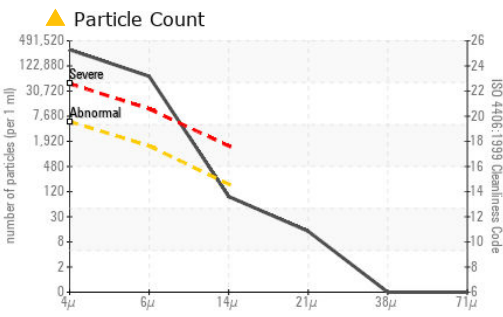
There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>20	▲ 33	6	7
Potassium	ppm	ASTM D5185m	>20	4	1	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 258736	▲ 51968	---
Particles >6µm		ASTM D7647	>1300	▲ 59904	▲ 2887	---
Particles >14µm		ASTM D7647	>160	81	20	---
Particles >21µm		ASTM D7647	>40	12	2	---
Particles >38µm		ASTM D7647	>10	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 25/23/14	▲ 23/19/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	0	2
Boron	ppm	ASTM D5185m	110	71	54	28
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	4	2	1
Manganese	ppm	ASTM D5185m	1	2	0	---
Magnesium	ppm	ASTM D5185m	13	46	29	17
Calcium	ppm	ASTM D5185m	3610	2510	1770	1065
Phosphorus	ppm	ASTM D5185m	1192	984	884	883
Zinc	ppm	ASTM D5185m	1455	1192	1125	1064
Sulfur	ppm	ASTM D5185m	2641	3240	3050	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	0.77	0.81	---
Visc @ 40°C	cSt	ASTM D445	55.14	44.3	43.0	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122914 **Received** : 26 Jun 2024
Lab Number : 06221148 **Tested** : 27 Jun 2024
Unique Number : 11099345 **Diagnosed** : 27 Jun 2024 - Don Baldrige
Test Package : MOB 2

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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)