



Area
G.LOPES CONSTRUCTION INC./Off-Road
Machine Id
D688
Component
Hydraulic System
Fluid
PETRO CANADA DURATRAN (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0122835	PCA0078068	PCA0066568
Sample Date		Client Info		09 Jul 2024	04 Oct 2022	30 Mar 2022
Machine Age	hrs	Client Info		10000000	14291	10000000
Oil Age	hrs	Client Info		5674	5674	5674
Filter Age	hrs	Client Info		0	5674	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	4	4	3
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	4	3	2
Lead	ppm	ASTM D5185m	>10	0	1	<1
Copper	ppm	ASTM D5185m	>75	11	6	3
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

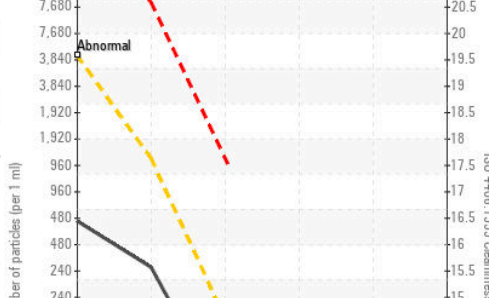
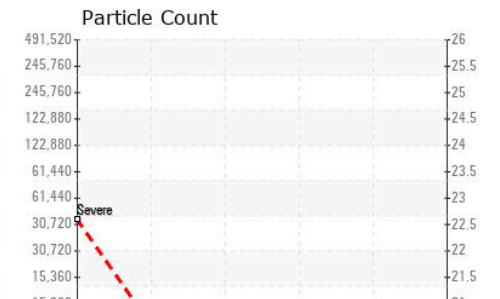
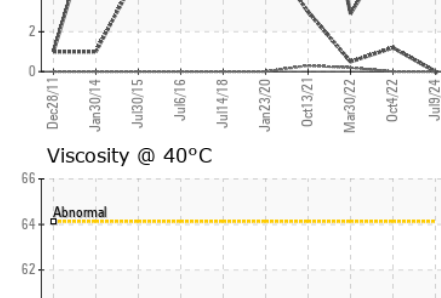
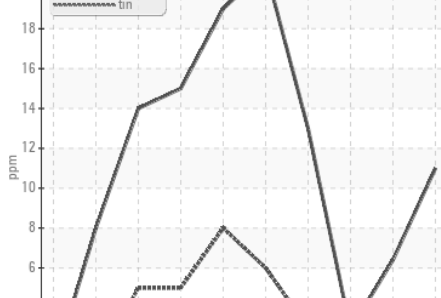
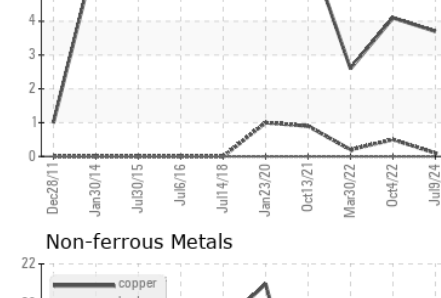
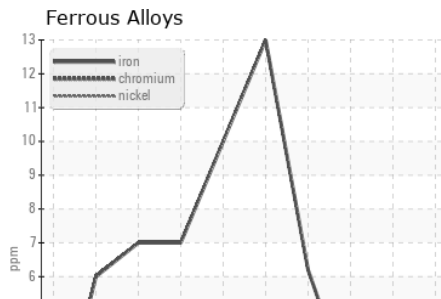
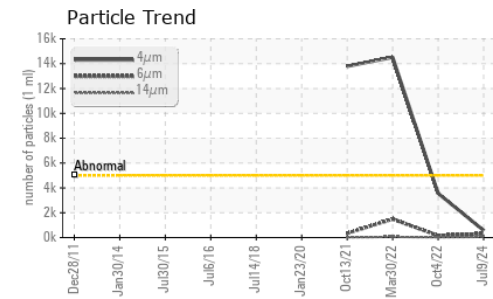
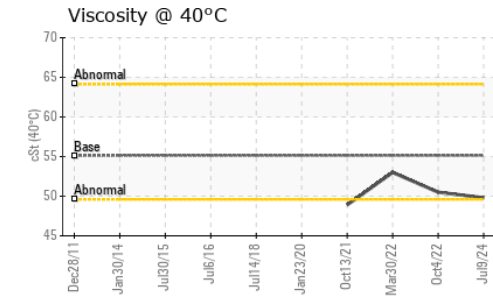
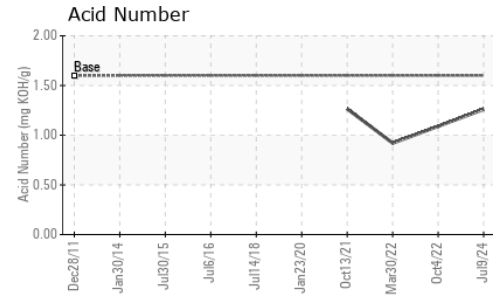
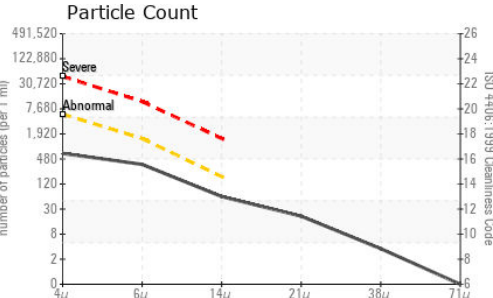
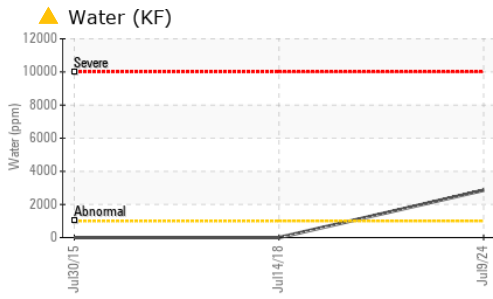
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	15	11	9
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water	%	ASTM D6304	>0.1	▲ 0.286	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 2860	---	---
Particles >4µm		ASTM D7647	>5000	574	3557	▲ 14515
Particles >6µm		ASTM D7647	>1300	313	160	● 1490
Particles >14µm		ASTM D7647	>160	53	19	54
Particles >21µm		ASTM D7647	>40	18	5	9
Particles >38µm		ASTM D7647	>10	3	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/13	19/14/11	▲ 21/18/13
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	0.2%	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		5	2	5
Boron	ppm	ASTM D5185m	110	97	92	104
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	0	4	4
Manganese	ppm	ASTM D5185m	1	0	<1	<1
Magnesium	ppm	ASTM D5185m	13	73	62	76
Calcium	ppm	ASTM D5185m	3610	3276	3057	3382
Phosphorus	ppm	ASTM D5185m	1192	1172	1021	1110
Zinc	ppm	ASTM D5185m	1455	1445	1283	1286
Sulfur	ppm	ASTM D5185m	2641	4415	3908	3166
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	1.26	1.09	0.92
Visc @ 40°C	cSt	ASTM D445	55.14	49.8	50.5	53.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122835 **Received** : 11 Jul 2024
Lab Number : 06233226 **Tested** : 17 Jul 2024
Unique Number : 11116719 **Diagnosed** : 17 Jul 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF)

G LOPES CONSTRUCTION
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 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)