

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
G.LOPES CONSTRUCTION INC./Off-Road
Machine Id
L89
Component
Hydraulic System
Fluid
PETRO CANADA DURATRAN (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	PCA0098544	---	---
Sample Date	Client Info	03 Jul 2023	---	---
Machine Age	hrs Client Info	14029	---	---
Oil Age	hrs Client Info	14029	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm ASTM D5185m	>71	49	---	---
Chromium ppm ASTM D5185m	>11	4	---	---
Nickel ppm ASTM D5185m	>6	0	---	---
Titanium ppm ASTM D5185m		<1	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>11	3	---	---
Lead ppm ASTM D5185m	>13	<1	---	---
Copper ppm ASTM D5185m	>21	3	---	---
Tin ppm ASTM D5185m	>5	<1	---	---
Vanadium ppm ASTM D5185m		<1	---	---
Cadmium ppm ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history 1	history 2
Boron ppm ASTM D5185m	110	84	---	---
Barium ppm ASTM D5185m	0.0	<1	---	---
Molybdenum ppm ASTM D5185m	0.0	4	---	---
Manganese ppm ASTM D5185m	1	<1	---	---
Magnesium ppm ASTM D5185m	13	62	---	---
Calcium ppm ASTM D5185m	3610	2629	---	---
Phosphorus ppm ASTM D5185m	1192	943	---	---
Zinc ppm ASTM D5185m	1455	1088	---	---
Sulfur ppm ASTM D5185m	2641	5565	---	---

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm ASTM D5185m	>24	16	---	---
Sodium ppm ASTM D5185m	>21	9	---	---
Potassium ppm ASTM D5185m	>20	2	---	---

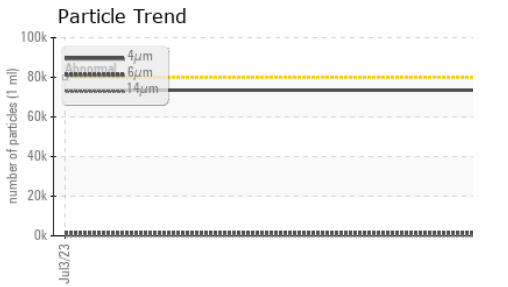
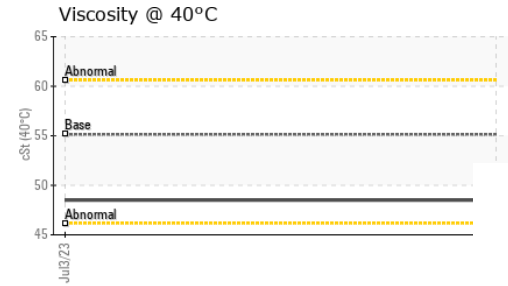
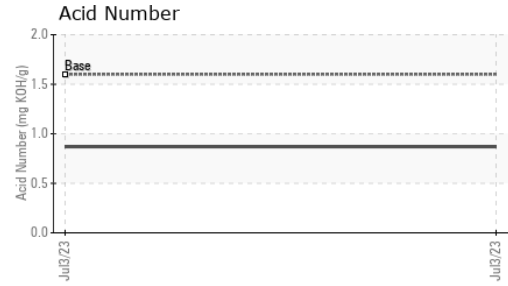
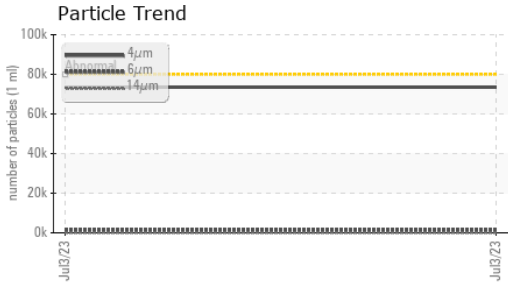
FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm ASTM D7647	>80000	73525	---	---
Particles >6µm ASTM D7647	>5000	1597	---	---
Particles >14µm ASTM D7647	>640	57	---	---
Particles >21µm ASTM D7647	>160	11	---	---
Particles >38µm ASTM D7647	>40	1	---	---
Particles >71µm ASTM D7647	>10	0	---	---
Oil Cleanliness ISO 4406 (c)	>23/19/16	23/18/13	---	---

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Acid Number (AN) mg KOH/g ASTM D8045	1.6	0.87	---	---

OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	---
Free Water	scalar	*Visual		NEG	---

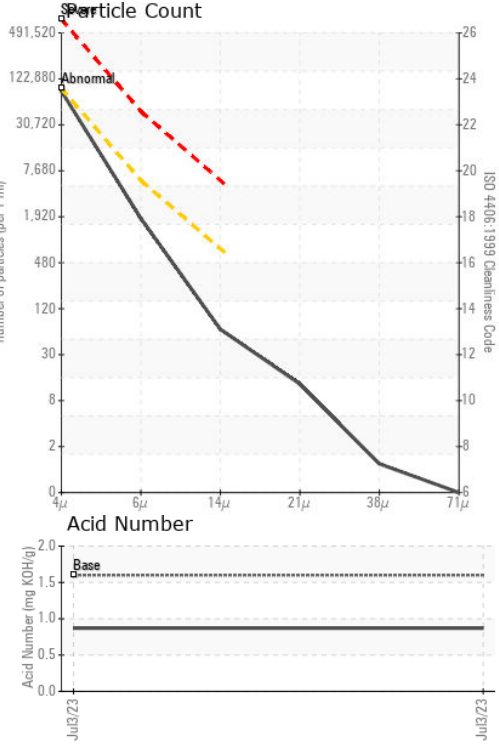
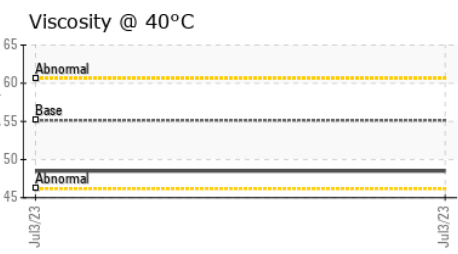
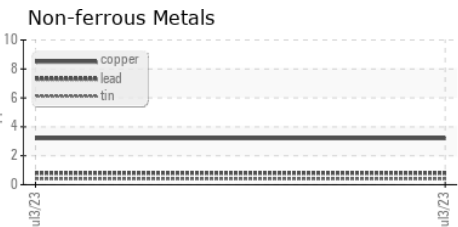
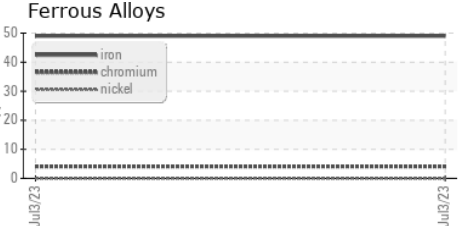
FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	55.14	48.5	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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Color

		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098544 **Received** : 06 Jul 2023
Lab Number : 05891291 **Diagnosed** : 07 Jul 2023
Unique Number : 10547101 **Diagnostician** : Wes Davis
Test Package : MOB 2

G LOPES CONSTRUCTION
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 T:
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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)