



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**G. LOPES CONSTRUCTION INC./Off-Road**  
Machine Id  
**E346**  
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		<b>PCA0122479</b>	PCA0109945	PCA0109826
Sample Date		Client Info		<b>18 Jun 2024</b>	26 Mar 2024	24 Oct 2023
Machine Age	hrs	Client Info		<b>8296</b>	8296	8004
Oil Age	hrs	Client Info		<b>6895</b>	6895	6895
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>15</b>	31	27
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	3	3
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	4	3
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	<1
Copper	ppm	ASTM D5185m	>75	<b>12</b>	25	22
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

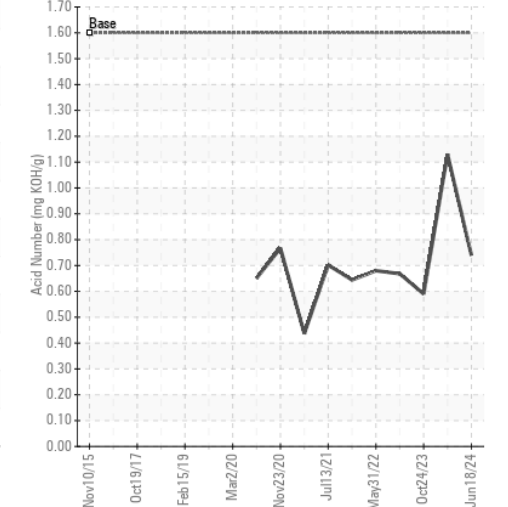
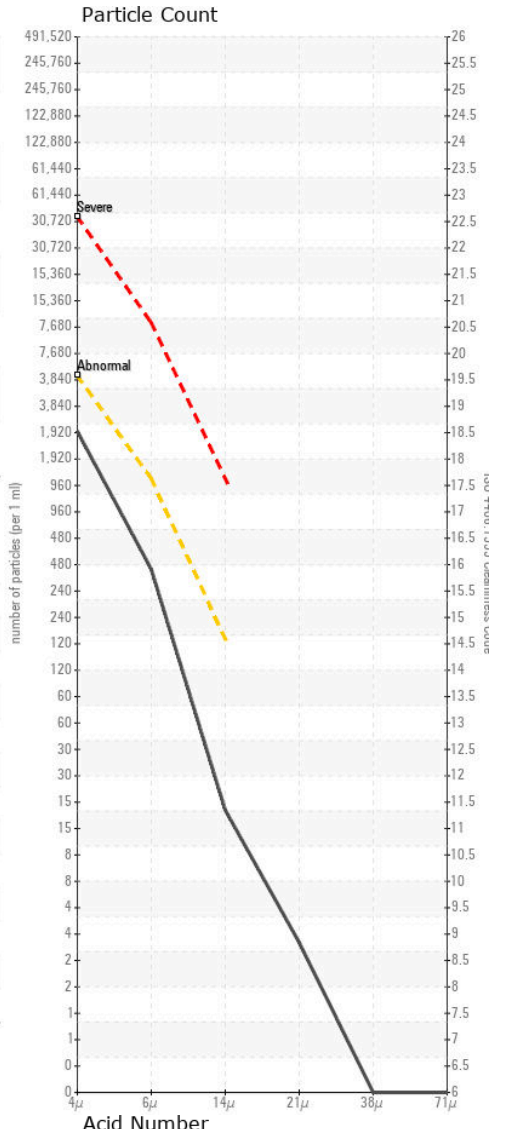
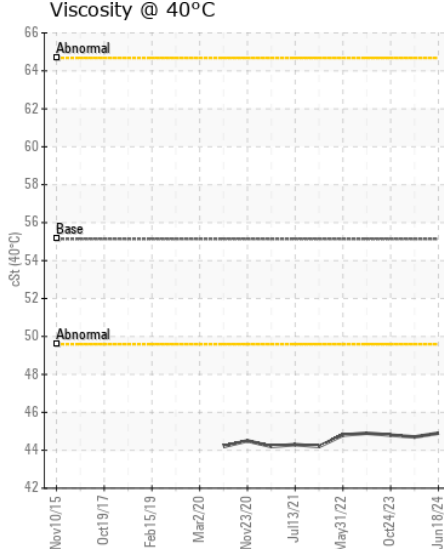
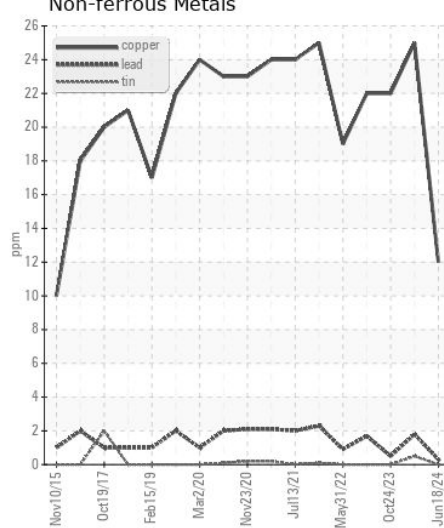
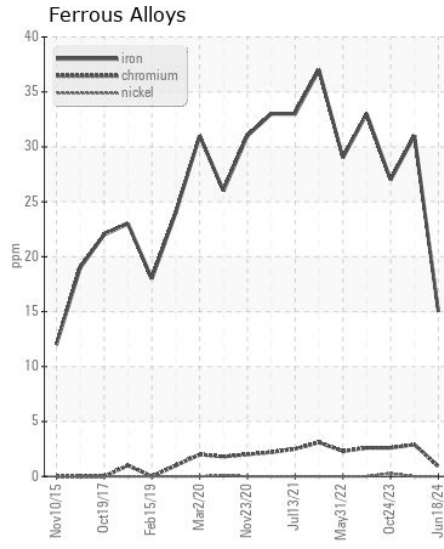
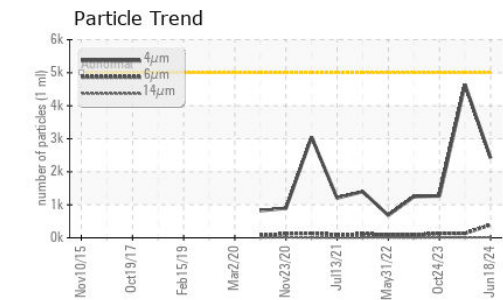
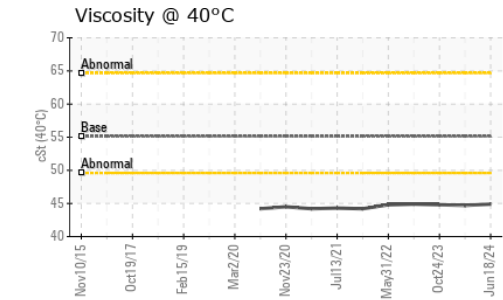
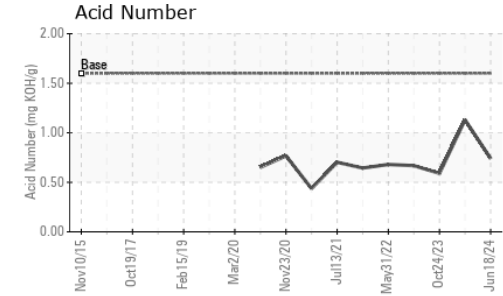
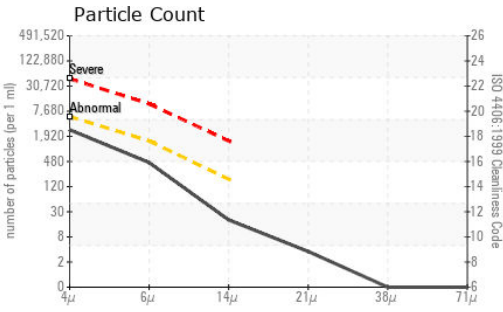
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>11</b>	7	7
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>2415</b>	4642	1268
Particles >6µm		ASTM D7647	>1300	<b>397</b>	134	131
Particles >14µm		ASTM D7647	>160	<b>17</b>	13	10
Particles >21µm		ASTM D7647	>40	<b>3</b>	4	2
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>18/16/11</b>	19/14/11	17/14/10
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	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		<b>5</b>	3	1
Boron	ppm	ASTM D5185m	110	<b>63</b>	33	23
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	0.0	<b>1</b>	2	0
Manganese	ppm	ASTM D5185m	1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	13	<b>31</b>	16	21
Calcium	ppm	ASTM D5185m	3610	<b>2063</b>	998	940
Phosphorus	ppm	ASTM D5185m	1192	<b>967</b>	822	836
Zinc	ppm	ASTM D5185m	1455	<b>1174</b>	972	1044
Sulfur	ppm	ASTM D5185m	2641	<b>3943</b>	3757	3925
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	<b>0.74</b>	1.13	0.59
Visc @ 40°C	cSt	ASTM D445	55.14	<b>44.9</b>	44.7	44.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0122479  
**Lab Number** : 06215777  
**Unique Number** : 11088641  
**Test Package** : MOB 2  
**Received** : 20 Jun 2024  
**Tested** : 21 Jun 2024  
**Diagnosed** : 22 Jun 2024 - Don Baldrige

**G LOPES CONSTRUCTION**  
 565 WINTHROP ST  
 TAUNTON, MA  
 US 02780  
 Contact: BUTCH MCGRATH  
 bmcgrath@glopes.com  
 T:  
 F:

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)