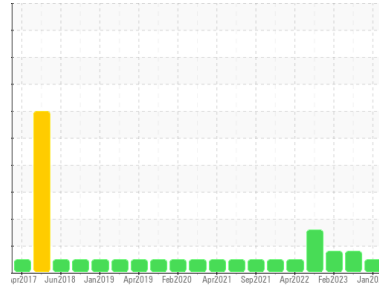


OIL ANALYSIS REPORT



Area
G.LOPES CONSTRUCTION INC./Off-Road
Machine Id
E831
Component
Hydraulic System
Fluid
PETRO CANADA DURATRAN (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are 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	history1	history2	
Sample Number	Client Info	PCA0109658	PCA0083231	PCA0090621	
Sample Date	Client Info	23 Jan 2024	25 Apr 2023	01 Feb 2023	
Machine Age	hrs	Client Info	9203	8871	8110
Oil Age	hrs	Client Info	7273	7345	6941
Oil Changed	Client Info	N/A	N/A	N/A	
Sample Status		NORMAL	ABNORMAL	ABNORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	25	▲ 36	▲ 38
Chromium	ppm ASTM D5185m >10	4	6	6
Nickel	ppm ASTM D5185m >10	0	0	0
Titanium	ppm ASTM D5185m	0	0	<1
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >10	3	2	2
Lead	ppm ASTM D5185m >10	<1	0	1
Copper	ppm ASTM D5185m >75	11	16	17
Tin	ppm ASTM D5185m >10	0	0	<1
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 110	25	2	0
Barium	ppm ASTM D5185m 0.0	0	0	0
Molybdenum	ppm ASTM D5185m 0.0	2	<1	<1
Manganese	ppm ASTM D5185m 1	0	<1	<1
Magnesium	ppm ASTM D5185m 13	23	7	6
Calcium	ppm ASTM D5185m 3610	1271	340	213
Phosphorus	ppm ASTM D5185m 1192	838	669	637
Zinc	ppm ASTM D5185m 1455	1026	912	831
Sulfur	ppm ASTM D5185m 2641	2555	1901	2049

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	5	4	4
Sodium	ppm ASTM D5185m	0	2	2
Potassium	ppm ASTM D5185m >20	3	<1	2

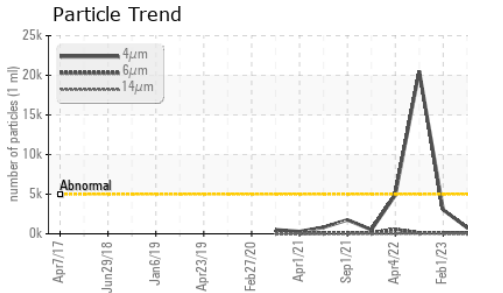
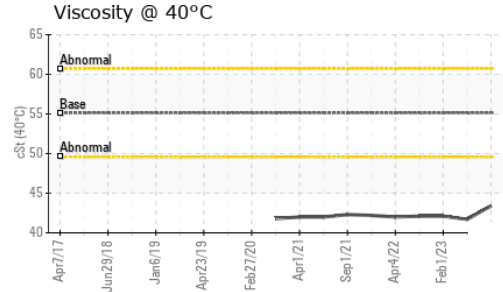
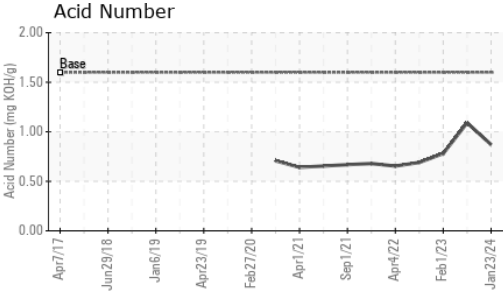
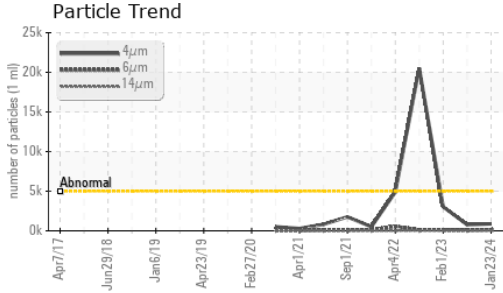
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	878	766	3033
Particles >6µm	ASTM D7647 >1300	147	103	123
Particles >14µm	ASTM D7647 >160	5	6	8
Particles >21µm	ASTM D7647 >40	1	1	2
Particles >38µm	ASTM D7647 >10	0	0	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	17/14/10	17/14/10	19/14/10

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 1.6	0.87	1.09	0.78

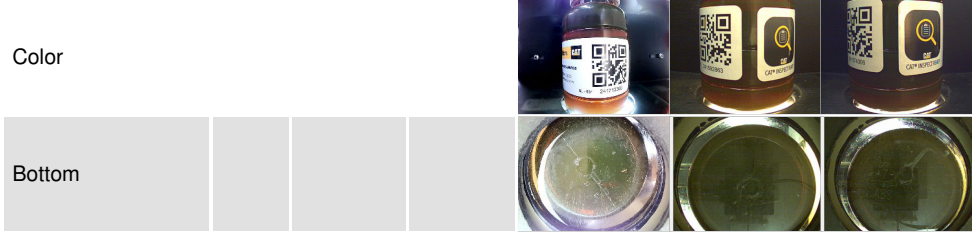
OIL ANALYSIS REPORT



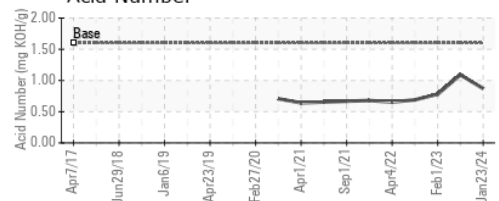
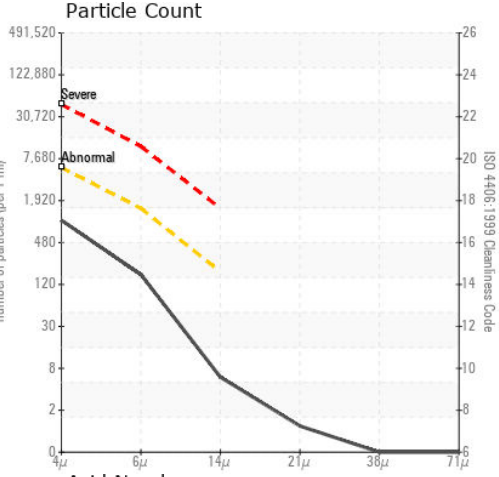
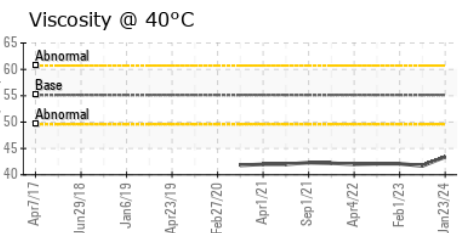
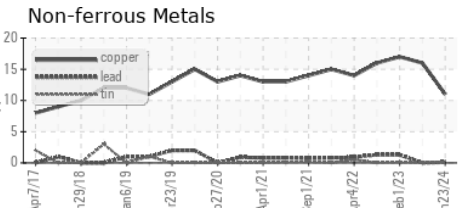
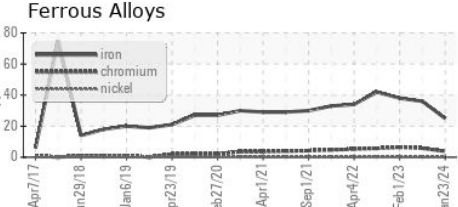
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	55.14	43.4	41.7	42.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0109658 **Received** : 26 Jan 2024
Lab Number : **06071584** **Diagnosed** : 30 Jan 2024
Unique Number : 10848261 **Diagnostician** : Jonathan Hester
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)