



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
G.LOPES CONSTRUCTION INC./Off-Road
Machine Id
L67
Component
Hydraulic System
Fluid
PETRO CANADA DURATRAN (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0122910	PCA0109863	PCA0090579
Sample Date		Client Info		24 Jun 2024	20 Dec 2023	09 May 2023
Machine Age	hrs	Client Info		30168	29479	29236
Oil Age	hrs	Client Info		12388	12388	12803
Filter Age	hrs	Client Info		0	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	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	14	16	▲ 31
Chromium	ppm	ASTM D5185m	>10	5	6	▲ 17
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	3	3	● 8
Lead	ppm	ASTM D5185m	>10	2	2	2
Copper	ppm	ASTM D5185m	>75	5	5	5
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

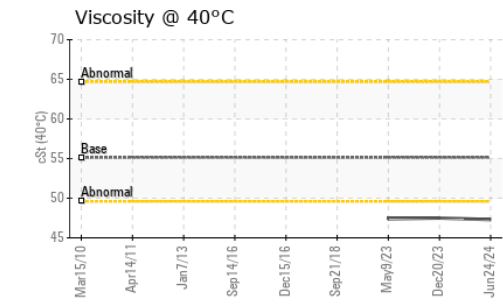
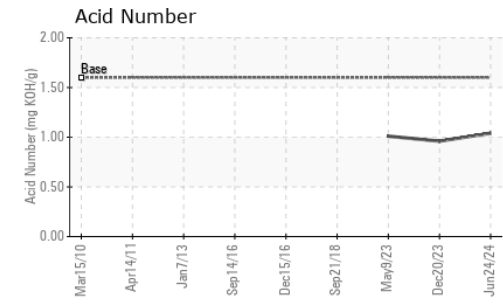
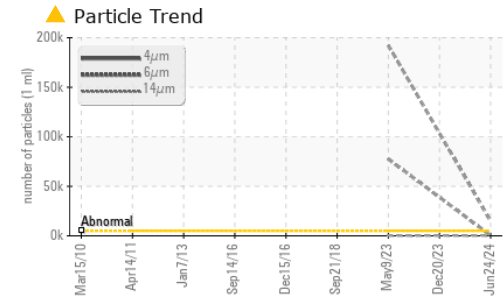
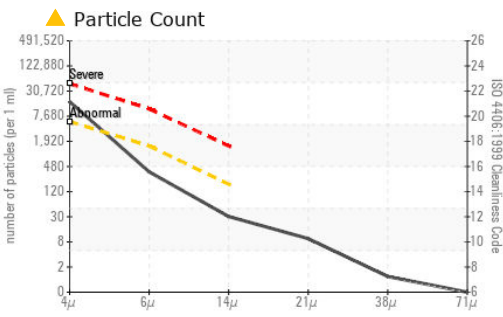
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	11	11	▲ 22
Potassium	ppm	ASTM D5185m	>20	2	3	5
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 14881	---	▲ 192265
Particles >6µm		ASTM D7647	>1300	314	---	▲ 77615
Particles >14µm		ASTM D7647	>160	27	---	12
Particles >21µm		ASTM D7647	>40	8	---	1
Particles >38µm		ASTM D7647	>10	1	---	0
Particles >71µm		ASTM D7647	>3	0	---	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/15/12	---	▲ 25/23/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	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	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		6	6	4
Boron	ppm	ASTM D5185m	110	81	82	93
Barium	ppm	ASTM D5185m	0.0	0	7	2
Molybdenum	ppm	ASTM D5185m	0.0	4	6	7
Manganese	ppm	ASTM D5185m	1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	13	66	63	69
Calcium	ppm	ASTM D5185m	3610	2774	2701	2833
Phosphorus	ppm	ASTM D5185m	1192	1055	1045	1014
Zinc	ppm	ASTM D5185m	1455	1273	1221	1306
Sulfur	ppm	ASTM D5185m	2641	5747	5788	5635
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	1.04	0.96	1.01
Visc @ 40°C	cSt	ASTM D445	55.14	47.3	47.5	47.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122910
Lab Number : 06221149
Unique Number : 11099346
Test Package : MOB 2

Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Wes Davis

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)

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