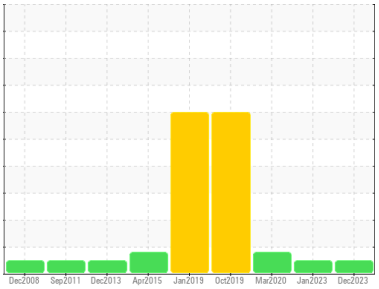
OIL ANALYSIS REPORT

Area
G.LOPES CONSTRUCTION INC./Off-Road
Machine Id
L34
Component
Rear Transmission
Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (--- 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 fluid.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0109864**	PCA0090655	PCA04105007
Sample Date		Client Info		**20 Dec 2023**	25 Jan 2023	30 Mar 2020
Machine Age	hrs	Client Info		**32268**	31507	28442
Oil Age	hrs	Client Info		**22821**	22821	---
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	ABNORMAL

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

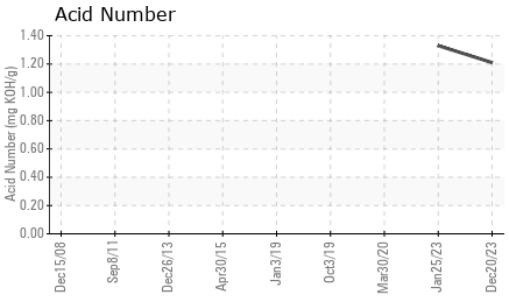
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**6**	10	11
Chromium	ppm	ASTM D5185m	>10	**0**	<1	0
Nickel	ppm	ASTM D5185m		**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	<1	---
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>50	**<1**	<1	1
Lead	ppm	ASTM D5185m	>50	**0**	2	4
Copper	ppm	ASTM D5185m	>200	**12**	14	▲ 41
Tin	ppm	ASTM D5185m	>10	**0**	1	0
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

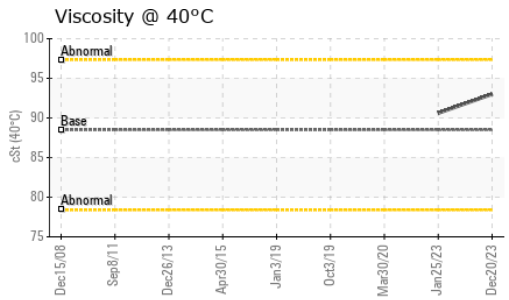
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	**3**	3	5
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	2	2
Manganese	ppm	ASTM D5185m	9	**0**	<1	---
Magnesium	ppm	ASTM D5185m	1	**26**	26	35
Calcium	ppm	ASTM D5185m	3131	**2859**	3024	2771
Phosphorus	ppm	ASTM D5185m	1194	**1054**	986	1028
Zinc	ppm	ASTM D5185m	1281	**1260**	1255	1101
Sulfur	ppm	ASTM D5185m	3811	**5755**	7214	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**2**	3	3
Sodium	ppm	ASTM D5185m		**1**	2	6
Potassium	ppm	ASTM D5185m	>20	**0**	0	1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.21**	1.33	---

OIL ANALYSIS REPORT



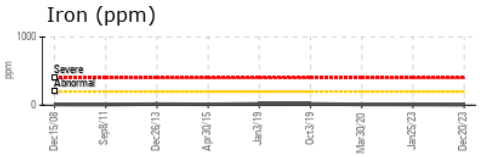


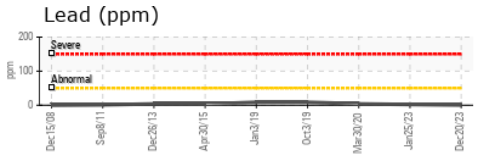
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	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	---

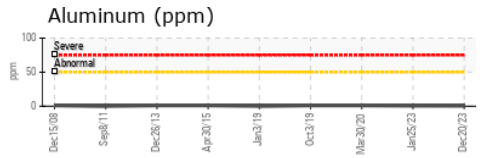
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	88.5	**93.0**	90.6	---

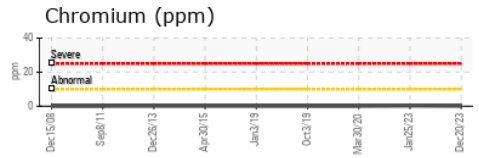
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	
Bottom			*no image*	*no image*	

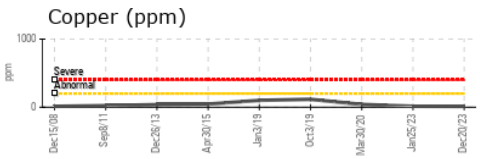
GRAPHS

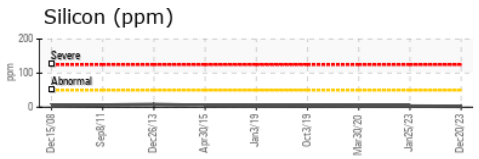


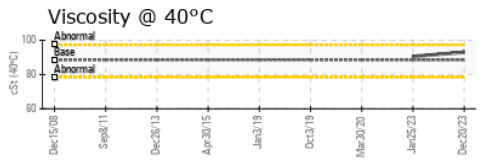


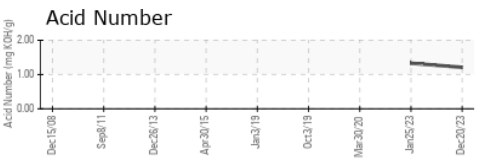












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0109864
Lab Number : 06043406
Unique Number : 10804014
Test Package : MOB 2

Recieved : 22 Dec 2023
Diagnosed : 26 Dec 2023
Diagnostician : 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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Report Id: GLOTAU [WUSCAR] 06043406 (Generated: 12/26/2023 09:11:52) Rev: 1

Submitted By: MATT MANOLI