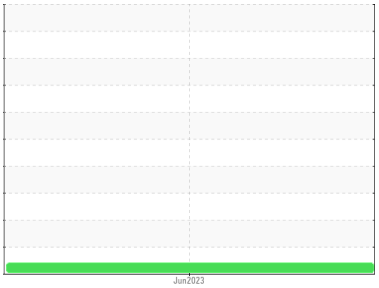
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Area
G.LOPES CONSTRUCTION INC./Off-Road
Machine Id
BH65
Component
Right Differential
Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

Sample Rating Trend



VISCOSITY

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.

Fluid Condition
The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number		Client Info		**PCA0098358**	---	---
Sample Date		Client Info		**28 Jun 2023**	---	---
Machine Age	hrs	Client Info		**8757**	---	---
Oil Age	hrs	Client Info		**8757**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ATTENTION**	---	---

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>500	**225**	---	---
Chromium	ppm	ASTM D5185m	>3	**1**	---	---
Nickel	ppm	ASTM D5185m	>3	**0**	---	---
Titanium	ppm	ASTM D5185m	>2	**<1**	---	---
Silver	ppm	ASTM D5185m	>2	**0**	---	---
Aluminum	ppm	ASTM D5185m	>30	**<1**	---	---
Lead	ppm	ASTM D5185m	>13	**3**	---	---
Copper	ppm	ASTM D5185m	>103	**9**	---	---
Tin	ppm	ASTM D5185m	>5	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	**7**	---	---
Barium	ppm	ASTM D5185m	0	**16**	---	---
Molybdenum	ppm	ASTM D5185m	0	**6**	---	---
Manganese	ppm	ASTM D5185m	0	**3**	---	---
Magnesium	ppm	ASTM D5185m	9	**51**	---	---
Calcium	ppm	ASTM D5185m	3114	**2673**	---	---
Phosphorus	ppm	ASTM D5185m	1099	**1675**	---	---
Zinc	ppm	ASTM D5185m	1245	**1110**	---	---
Sulfur	ppm	ASTM D5185m	7086	**10372**	---	---

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>100	**21**	---	---
Sodium	ppm	ASTM D5185m		**8**	---	---
Potassium	ppm	ASTM D5185m	>20	**<1**	---	---

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	3.27	**1.44**	---	---

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	>.2	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

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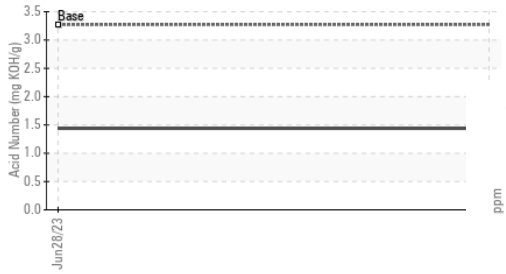
▲ Viscosity @ 40°C

Acid Number

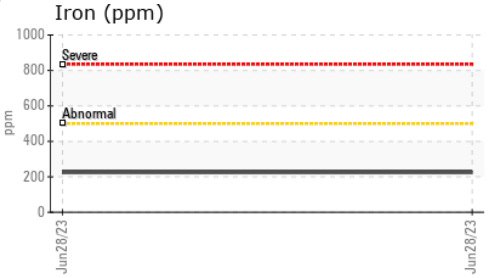


FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	213.9	▲ **84.9**	---	---

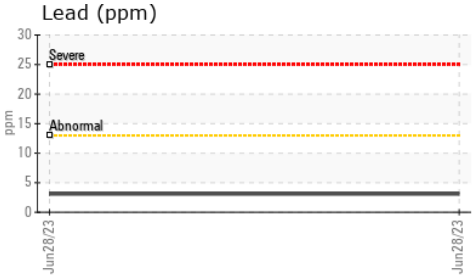
SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

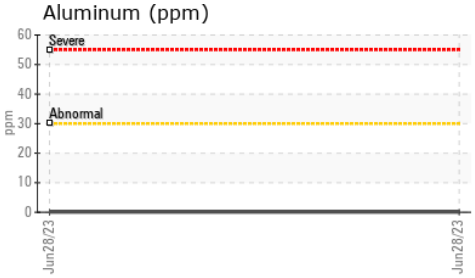
Iron (ppm)



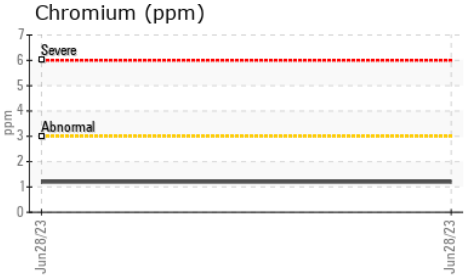
Lead (ppm)



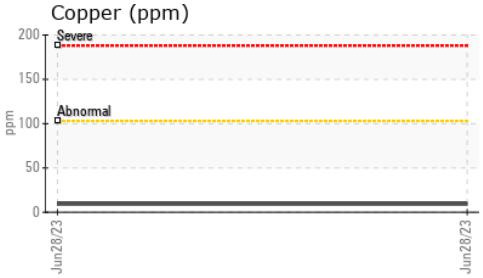
Aluminum (ppm)



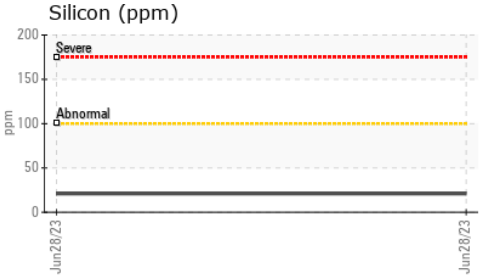
Chromium (ppm)



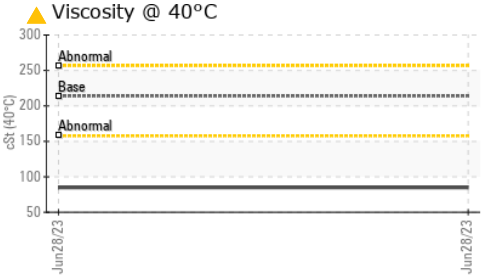
Copper (ppm)



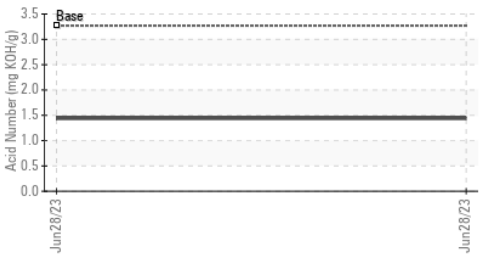
Silicon (ppm)



▲ Viscosity @ 40°C



Acid Number



ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098358
Lab Number : 05887953
Unique Number : 10538436
Test Package : MOB 2

Received : 30 Jun 2023
Diagnosed : 04 Jul 2023
Diagnostician : Don Baldridge

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)