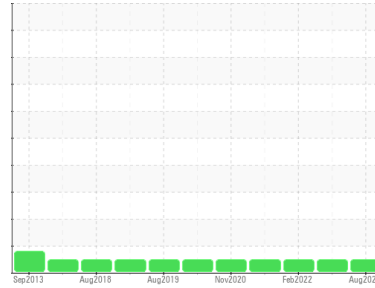


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area
N.E.R./Off-Road
 Machine Id
L86
 Component
Transmission (Manual)
 Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)


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	PCA0098473	PCA0078066	PCA0066487
Sample Date	Client Info	07 Aug 2023	04 Oct 2022	22 Feb 2022
Machine Age	hrs	106810	106810	14990
Oil Age	hrs	14458	14458	92352
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	7	4	27
Chromium	ppm	ASTM D5185m >5	<1	<1	<1
Nickel	ppm	ASTM D5185m >5	<1	0	0
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >7	<1	1	<1
Aluminum	ppm	ASTM D5185m >25	<1	1	1
Lead	ppm	ASTM D5185m >45	4	<1	<1
Copper	ppm	ASTM D5185m >225	19	4	3
Tin	ppm	ASTM D5185m >10	2	<1	<1
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 2	0	0	3
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	2	1	2
Manganese	ppm	ASTM D5185m 9	2	1	<1
Magnesium	ppm	ASTM D5185m 1	13	11	25
Calcium	ppm	ASTM D5185m 3131	2546	2960	3263
Phosphorus	ppm	ASTM D5185m 1194	897	1041	1104
Zinc	ppm	ASTM D5185m 1281	1113	1227	1411
Sulfur	ppm	ASTM D5185m 3811	8108	5744	6167

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >125	9	4	3
Sodium	ppm	ASTM D5185m	22	2	1
Potassium	ppm	ASTM D5185m >20	3	0	2

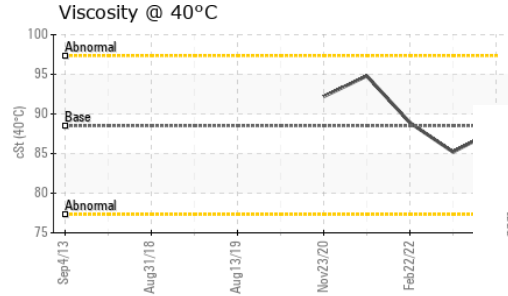
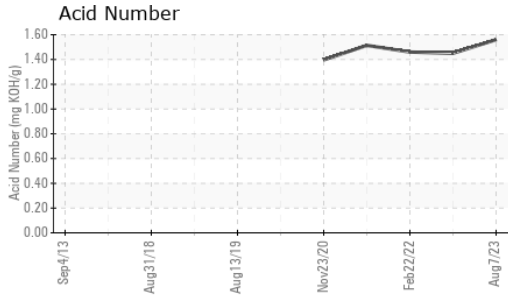
FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.56	1.45	1.46

VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	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
Free Water	scalar	*Visual	NEG	NEG	NEG

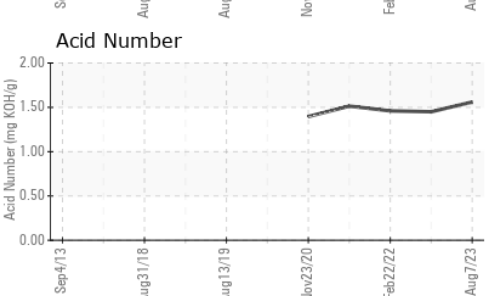
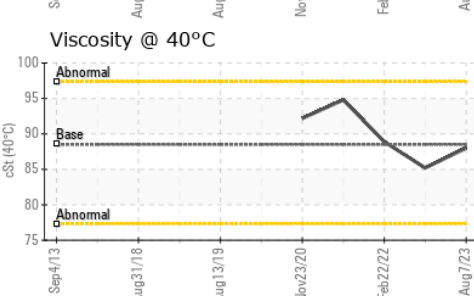
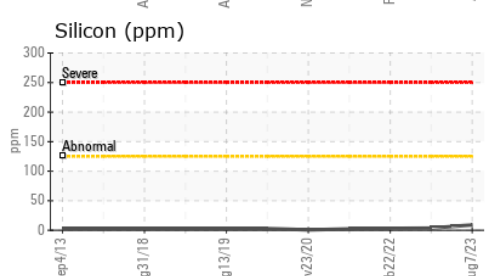
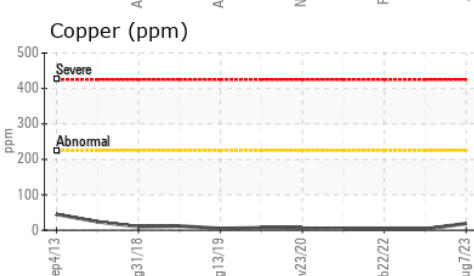
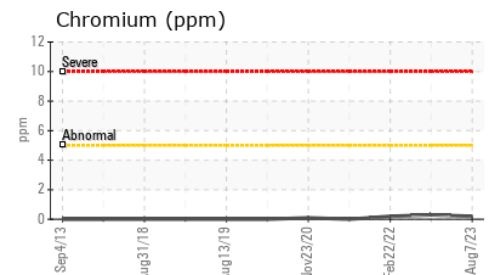
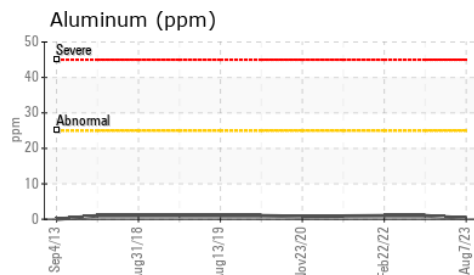
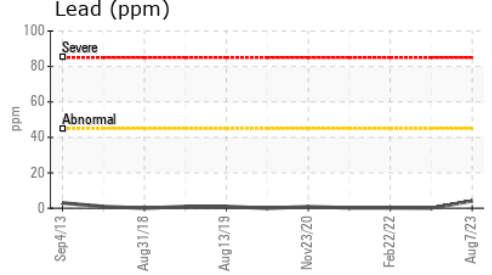
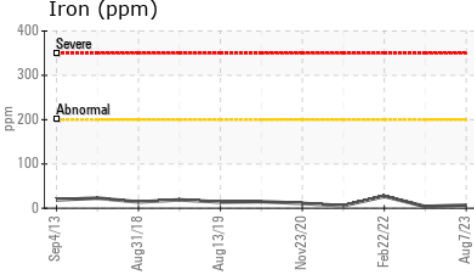
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	88.5	88.0	85.2	88.9

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098473 **Received** : 10 Aug 2023
Lab Number : **05920781** **Diagnosed** : 11 Aug 2023
Unique Number : 10592695 **Diagnostician** : Wes Davis
Test Package : MOB 2

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

Certificate L2367
 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)