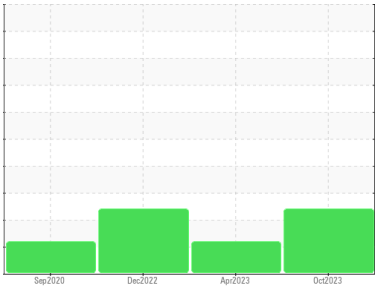
OIL DIAGNOSTICS

PROBLEM SUMMARY

Sample Rating Trend

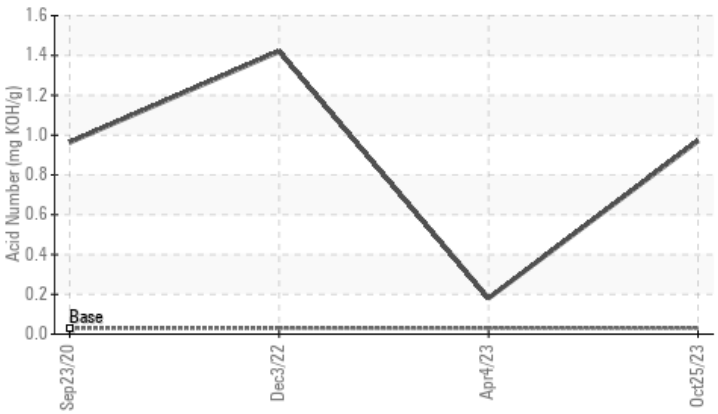


DEGRADATION

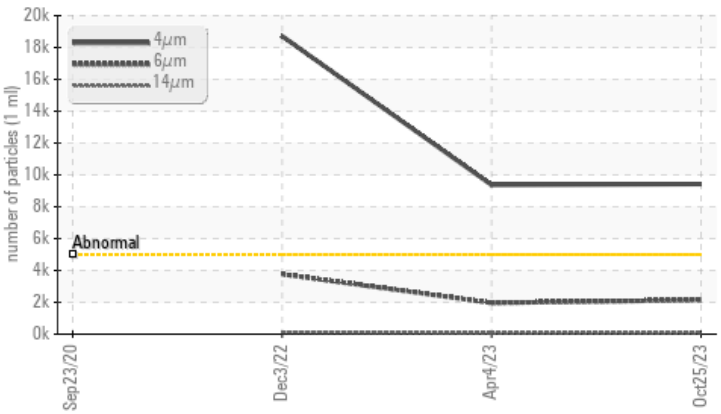
Machine Id
MAX 12
Component
Hydraulic System
Fluid
PETRO CANADA CALFLO AF (21 GAL)

COMPONENT CONDITION SUMMARY

Acid Number



Particle Trend



RECOMMENDATION

The oil is near the end of it`s useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ATTENTION	ABNORMAL
Particles >4µm		ASTM D7647	>5000	▲ **9424**	▲ 9363	▲ 18714
Particles >6µm		ASTM D7647	>1300	▲ **2145**	▲ 1961	▲ 3765
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/18/13**	▲ 20/18/13	▲ 21/19/14
Acid Number (AN)	mg KOH/g	ASTM D8045	0.03	▲ **0.97**	0.18	▲ 1.42

Customer Id: GALGURIL
Sample No.: PCA0096796
Lab Number: 05994305
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Service/change Fluid	---	---	?	The oil is near the end of it's useful service life, recommend schedule an oil change.

HISTORICAL DIAGNOSIS

04 Apr 2023 Diag: Wes Davis

ISO

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

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03 Dec 2022 Diag: Don Baldridge

DEGRADATION

The oil is near the end of it`s useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is above the recommended limit.

view report

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23 Sep 2020 Diag: Don Baldridge

DEGRADATION

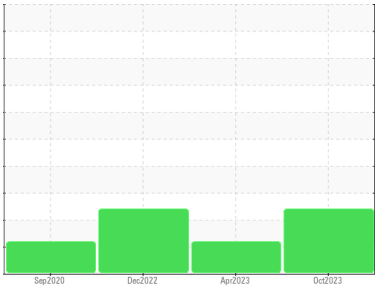
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is above the recommended limit.

view report

OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
MAX 12
Component
Hydraulic System
Fluid
PETRO CANADA CALFLO AF (21 GAL)

DIAGNOSIS

Recommendation
The oil is near the end of it`s useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

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

Fluid Condition
The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0096796**	PCA0088492	PCA0067936
Sample Date		Client Info		**25 Oct 2023**	04 Apr 2023	03 Dec 2022
Machine Age	mths	Client Info		**10**	4	2
Oil Age	mths	Client Info		**10**	4	2
Oil Changed		Client Info		**N/A**	N/A	Not Changd
Sample Status				**ABNORMAL**	ATTENTION	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**2**	<1	2
Chromium	ppm	ASTM D5185m	>20	**<1**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**<1**	0	0
Lead	ppm	ASTM D5185m	>20	**0**	0	<1
Copper	ppm	ASTM D5185m	>20	**4**	2	9
Tin	ppm	ASTM D5185m	>20	**<1**	0	0
Antimony	ppm	ASTM D5185m		**---**	---	---
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	0	**0**	0	0
Barium	ppm	ASTM D5185m	0	**20**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m	0	**0**	<1	0
Magnesium	ppm	ASTM D5185m	0	**0**	<1	0
Calcium	ppm	ASTM D5185m	0	**0**	<1	<1
Phosphorus	ppm	ASTM D5185m	270	**280**	251	251
Zinc	ppm	ASTM D5185m	0	**45**	16	42
Sulfur	ppm	ASTM D5185m	10	**0**	6	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**5**	3	5
Sodium	ppm	ASTM D5185m		**3**	0	1
Potassium	ppm	ASTM D5185m	>20	**0**	0	0

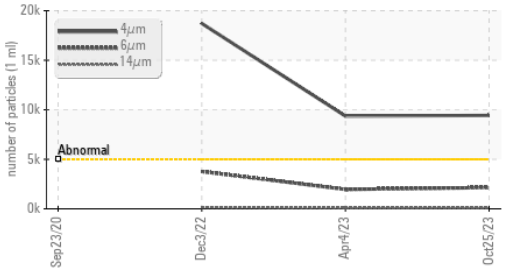
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **9424**	▲ 9363	▲ 18714
Particles >6µm		ASTM D7647	>1300	▲ **2145**	▲ 1961	▲ 3765
Particles >14µm		ASTM D7647	>160	**79**	69	124
Particles >21µm		ASTM D7647	>40	**21**	15	28
Particles >38µm		ASTM D7647	>10	**2**	1	2
Particles >71µm		ASTM D7647	>3	**0**	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/18/13**	▲ 20/18/13	▲ 21/19/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.03	▲ **0.97**	0.18	▲ 1.42

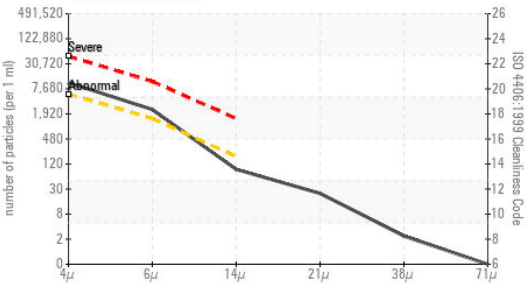
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

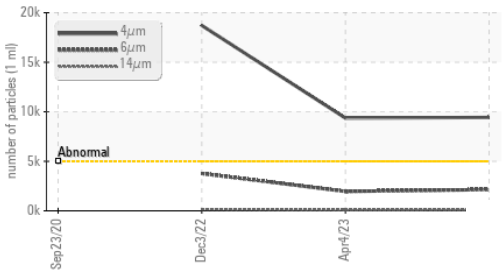
Particle Trend



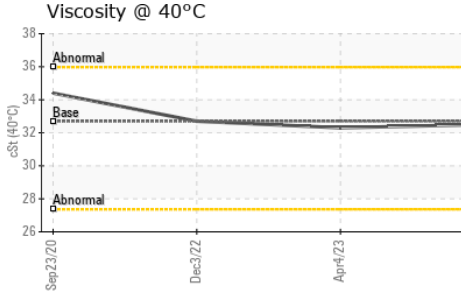
Particle Count



Particle Trend



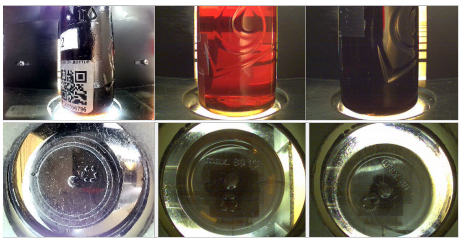
Viscosity @ 40°C



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
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**	LIGHT	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	>0.05	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

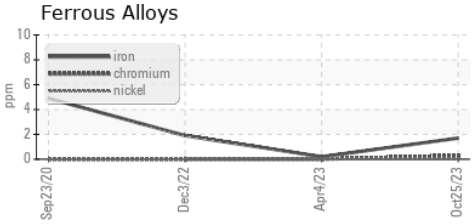
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.7	**32.5**	32.3	32.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

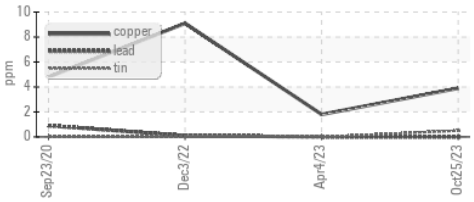


GRAPHS

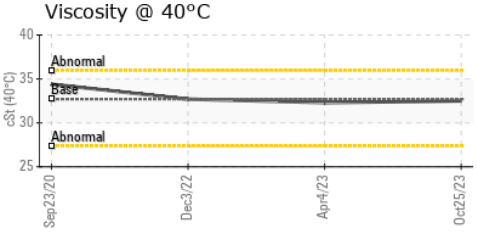
Ferrous Alloys



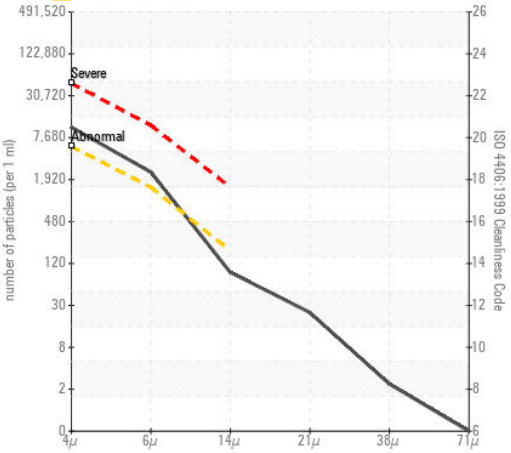
Non-ferrous Metals



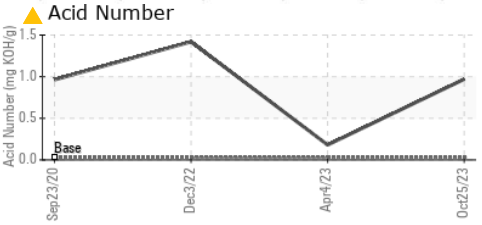
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0096796
Lab Number : 05994305
Unique Number : 10722665
Test Package : IND 2

Received : 31 Oct 2023
Diagnosed : 01 Nov 2023
Diagnostician : Don Baldridge

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)

GALLAGHER CORPORATION
3908 MORRISON DR
GURNEE, IL
US 60031
Contact: BRAD CLIFF
bcliff@gallaghercorp.com
T: (847)249-3440
F: (847)249-3473