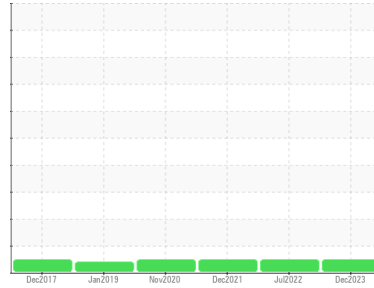


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
LINE 2 [908115728]
 Machine Id
[LINE 2] TANK 31309 TANK 31309
 Component
Gearbox
 Fluid
PETRO CANADA PURITY FG EP GEAR OIL 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0102805	PCA0077247	PCA0056247
Sample Date	Client Info	09 Dec 2023	17 Jul 2022	21 Dec 2021
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	15	13	18
Iron	ppm ASTM D5185m >200	1	1	2
Chromium	ppm ASTM D5185m >15	<1	0	0
Nickel	ppm ASTM D5185m >15	0	0	1
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m	0	0	<1
Aluminum	ppm ASTM D5185m >25	1	2	<1
Lead	ppm ASTM D5185m >100	0	<1	2
Copper	ppm ASTM D5185m >200	<1	0	<1
Tin	ppm ASTM D5185m >25	0	<1	<1
Antimony	ppm ASTM D5185m >5	---	---	2
Vanadium	ppm ASTM D5185m	0	0	<1
Cadmium	ppm ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	0	1
Barium	ppm ASTM D5185m	0	0	<1
Molybdenum	ppm ASTM D5185m	<1	0	<1
Manganese	ppm ASTM D5185m	0	0	<1
Magnesium	ppm ASTM D5185m	0	<1	0
Calcium	ppm ASTM D5185m	<1	10	6
Phosphorus	ppm ASTM D5185m	547	549	645
Zinc	ppm ASTM D5185m	0	6	7
Sulfur	ppm ASTM D5185m	704	535	511

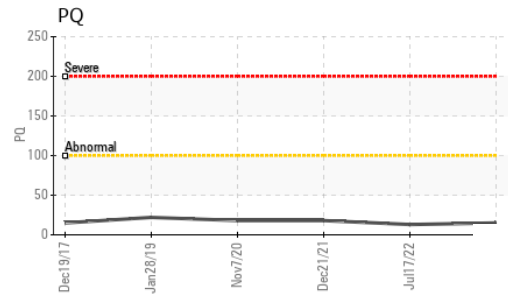
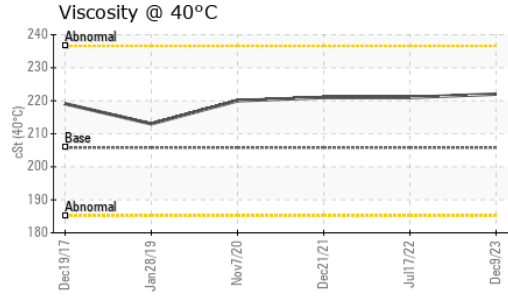
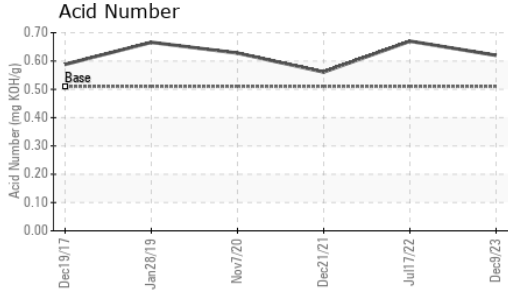
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	16	21	18
Sodium	ppm ASTM D5185m	0	0	1
Potassium	ppm ASTM D5185m >20	<1	<1	1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.51	0.62	0.67	0.561

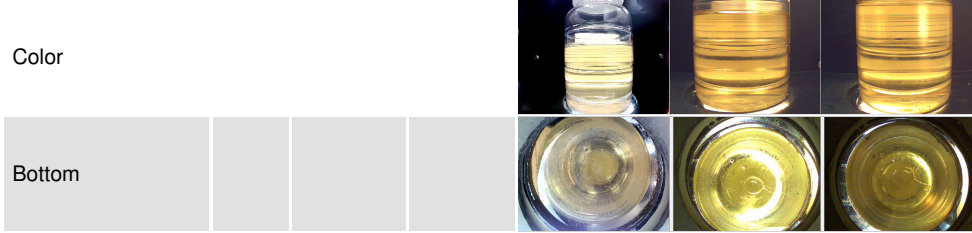
OIL ANALYSIS REPORT



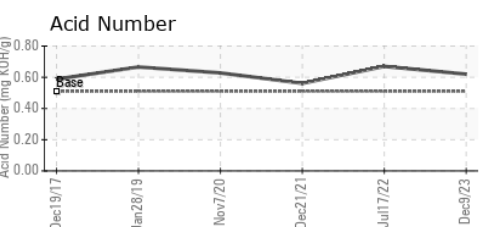
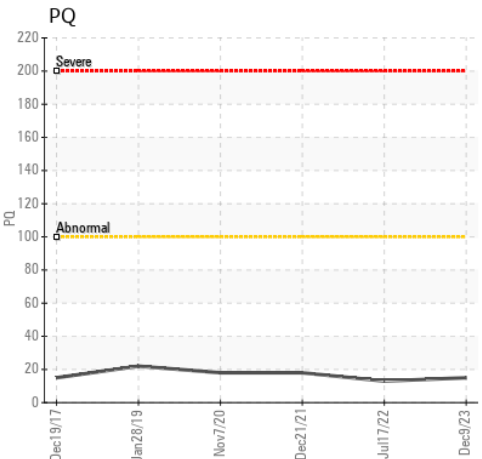
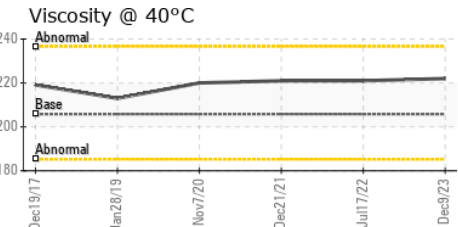
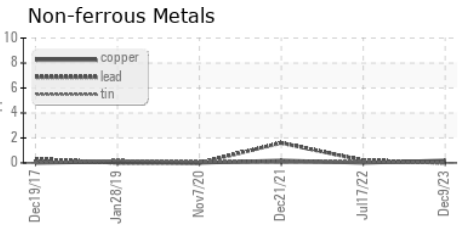
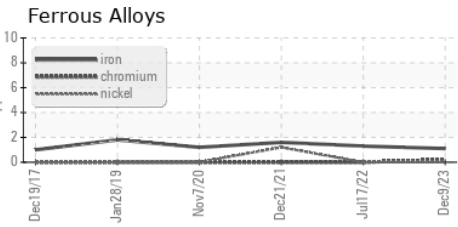
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	205.8	222	221

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0102805 **Received** : 18 Dec 2023
Lab Number : 06038716 **Diagnosed** : 20 Dec 2023
Unique Number : 10793945 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: PQ)

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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