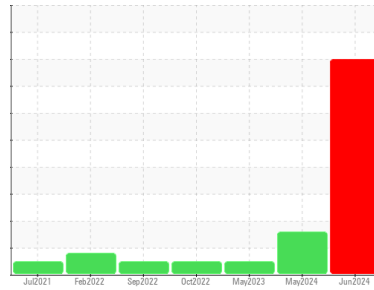


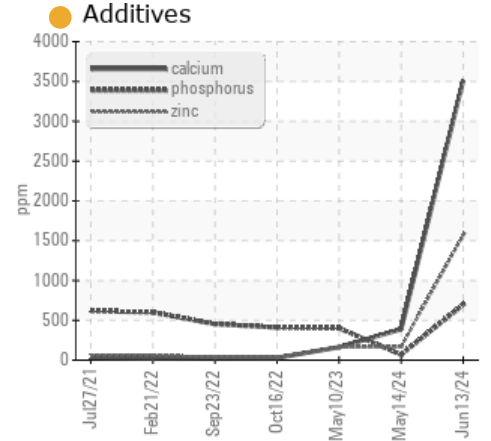
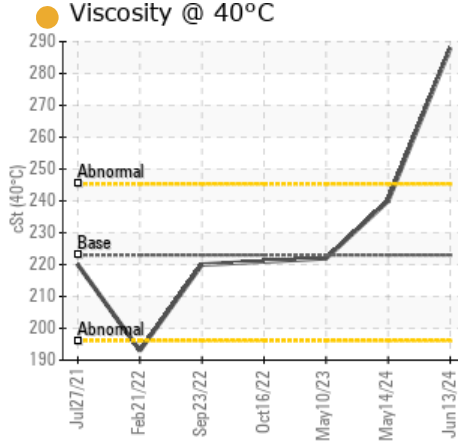
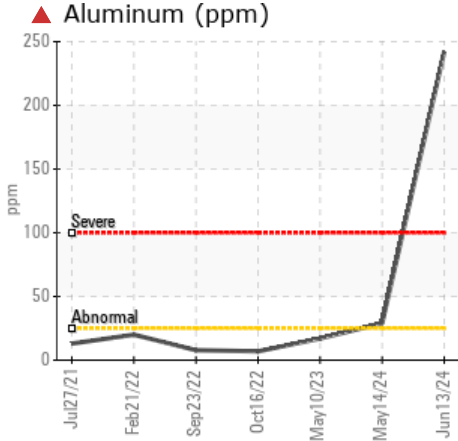
PROBLEM SUMMARY

Area
LINE 1
 Machine Id
[LINE 1] L1 PACTEC 12 L1 PACTEC 12
 Component
Gearbox
 Fluid
PETRO CANADA ENDURATEX SYNTHETIC EP 220 (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status		SEVERE	ABNORMAL	NORMAL	
Aluminum	ppm ASTM D5185m	>25	▲ 242	▲ 29	17
Debris	scalar *Visual	NONE	▲ MODER	NONE	NONE

Customer Id: HERHER
 Sample No.: PCA0128252
 Lab Number: 06222461
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

WEAR



14 May 2024 Diag: Angela Borella

Resample at the next service interval to monitor. The aluminum level is abnormal. Possible source is grease. All other component wear rates are normal. Appearance is milky. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

[view report](#)



NORMAL



10 May 2023 Diag: Don Baldrige

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

[view report](#)



NORMAL



16 Oct 2022 Diag: Don Baldrige

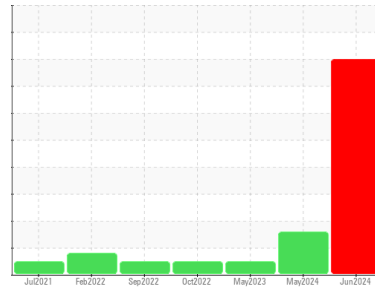
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



OIL ANALYSIS REPORT

Sample Rating Trend



Area
LINE 1
 Machine Id
[LINE 1] L1 PACTEC 12 L1 PACTEC 12
 Component
Gearbox
 Fluid
PETRO CANADA ENDURATEX SYNTHETIC EP 220 (--- GAL)

DIAGNOSIS

- ▲ Recommendation**
 We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.
- ▲ Wear**
 The aluminum level is severe.
- ▲ Contamination**
 Moderate concentration of visible dirt/debris present in the oil.
- Fluid Condition**
 The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0128252	PCA0127066	PCA0096168
Sample Date	Client Info	13 Jun 2024	14 May 2024	10 May 2023
Machine Age	hrs	3000	1	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	Not Chngd	N/A
Sample Status		SEVERE	ABNORMAL	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	49	24	12
Iron	ppm ASTM D5185m >200	54	9	3
Chromium	ppm ASTM D5185m >15	<1	1	<1
Nickel	ppm ASTM D5185m >15	<1	<1	0
Titanium	ppm ASTM D5185m	<1	<1	0
Silver	ppm ASTM D5185m	0	<1	0
Aluminum	ppm ASTM D5185m >25	▲ 242	▲ 29	17
Lead	ppm ASTM D5185m >100	<1	<1	0
Copper	ppm ASTM D5185m >200	4	1	<1
Tin	ppm ASTM D5185m >25	<1	<1	0
Vanadium	ppm ASTM D5185m	0	2	0
Cadmium	ppm ASTM D5185m	0	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 33	0	0	0
Barium	ppm ASTM D5185m 5	16	0	12
Molybdenum	ppm ASTM D5185m	0	<1	0
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m 5	7	1	14
Calcium	ppm ASTM D5185m 5	● 3512	389	163
Phosphorus	ppm ASTM D5185m 437	696	70	401
Zinc	ppm ASTM D5185m 5	● 1568	168	162
Sulfur	ppm ASTM D5185m 5000	● 1773	198	976

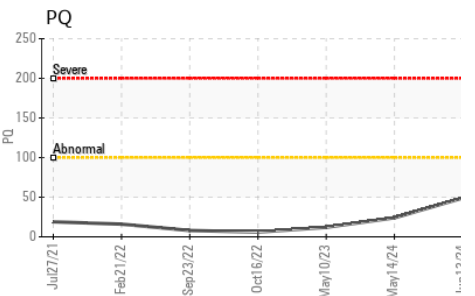
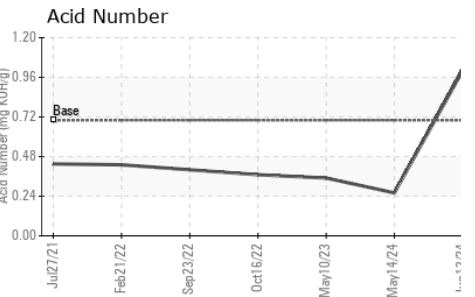
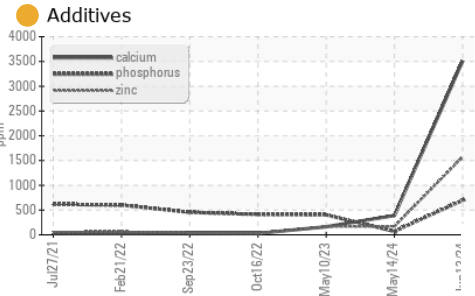
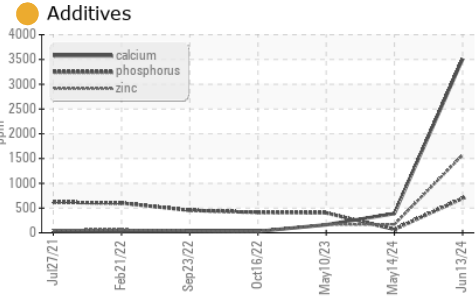
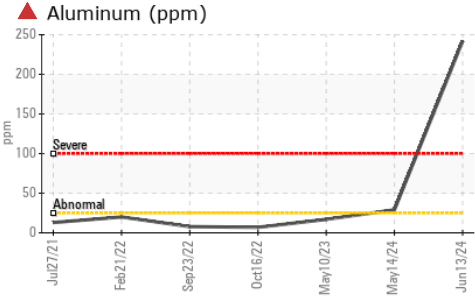
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	28	4	18
Sodium	ppm ASTM D5185m	4	29	<1
Potassium	ppm ASTM D5185m >20	3	7	<1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.7	1.00	0.26	0.35

OIL ANALYSIS REPORT

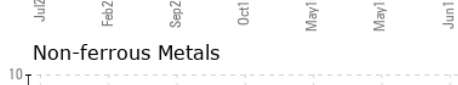
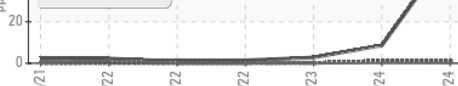


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

PARAMETER	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	223	● 288	240

PARAMETER	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0128252 **Received** : 27 Jun 2024
Lab Number : 06222461 **Tested** : 01 Jul 2024
Unique Number : 11100658 **Diagnosed** : 01 Jul 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: PQ)

THE HERSHEY COMPANY
 WEST HERSHEY - TECHNICAL ASSURANCE, 1033 OLDE WEST CHOCOLATE
 HERSHEY, PA
 US 17033
 Contact: BILL GEZIK
 bgezik@hersheys.com

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) F: (717)374-4594