

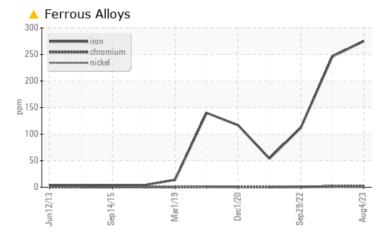
# **PROBLEM SUMMARY**

## Area LINE 8 [907828893] Machine Id [LINE 8] COOLER CARAMEL 3 COOLER CARAMEL 3 Component

Gearbox

PETRO CANADA ENDURATEX EP 460 (--- GAL)

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				MARGINAL	ABNORMAL	NORMAL		
Iron	ppm	ASTM D5185m	>200	<u> </u>	<b>A</b> 246	112		

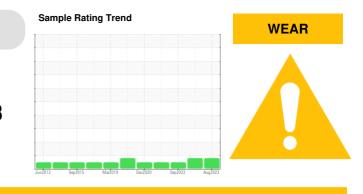
Customer Id: HERHER Sample No.: PCA0103736 Lab Number: 05923518 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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



# **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

## **HISTORICAL DIAGNOSIS**

# 07 Jun 2023 Diag: Don Baldridge



No corrective action is recommended at this time. Resample at the next service interval to monitor.Gear wear is indicated. All other 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.

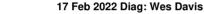


view report

# 29 Sep 2022 Diag: Wes Davis



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



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







# **OIL ANALYSIS REPORT**

# Area LINE 8 [907828893] [LINE 8] COOLER CARAMEL 3 COOLER CARAMEL 3 Component

Gearbox Fluid

PETRO CANADA ENDURATEX EP 460 (--- GAL)

# DIAGNOSIS

## Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

## 🔺 Wear

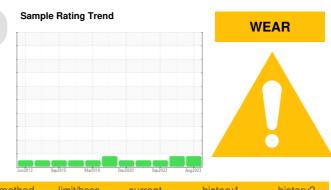
Gear wear is indicated. All other component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

## **Fluid Condition**

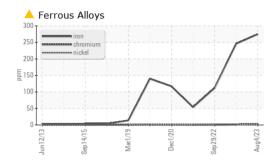
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

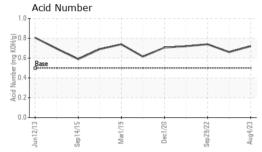


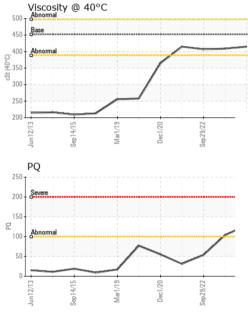
SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0103736	PCA0088980	PCA0080360
Sample Date		Client Info		04 Aug 2023	07 Jun 2023	29 Sep 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		3000	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	ABNORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
PQ		ASTM D8184		128	104	54
Iron	ppm	ASTM D5185m	>200	<u> </u>	<u> </u>	112
Chromium	ppm	ASTM D5185m	>15	2	2	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	<1
Antimony	ppm	ASTM D5185m	>5			
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	55	4	3	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	3	2	1
J	pp		-	3	<u>_</u>	
•	ppm	ASTM D5185m	2	0	0	0
Magnesium				-		
Magnesium Calcium	ppm	ASTM D5185m	2	0	0	0
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m	2 6 240	0	0 0	0 5
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 6 240	0 0 635	0 0 572	0 5 529
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 6 240 3	0 0 635 <1	0 0 572 4	0 5 529 4
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 6 240 3 10310	0 0 635 <1 1849	0 0 572 4 1433	0 5 529 4 1568
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	2 6 240 3 10310 limit/base	0 0 635 <1 1849 current	0 0 572 4 1433 history1	0 5 529 4 1568 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 6 240 3 10310 limit/base >50	0 0 635 <1 1849 current 3	0 0 572 4 1433 history1 0	0 5 529 4 1568 history2 2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 6 240 3 10310 limit/base >50	0 0 635 <1 1849 <u>current</u> 3 1	0 0 572 4 1433 history1 0 0	0 5 529 4 1568 history2 2 0



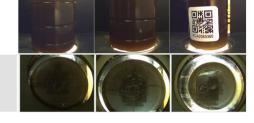
# **OIL ANALYSIS REPORT**



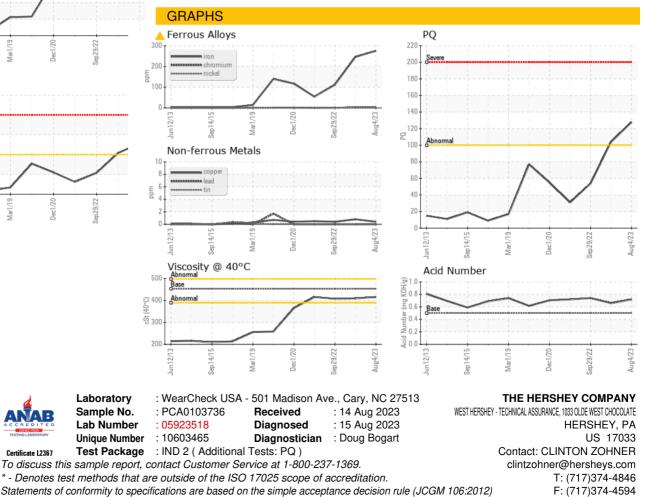




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	MODER	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	452	415	409	407
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color						



Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: CLINTON ZOHNER - HERHER