

PROBLEM SUMMARY

Sample Rating Trend



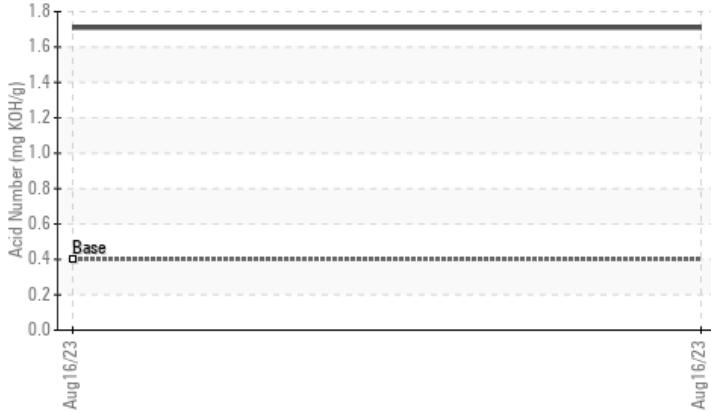
DEGRADATION



Machine Id
DR169
Component
Torque Drive
Fluid
PETRO CANADA ENDURATEX EP 220 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Acid Number



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	---	---		
Acid Number (AN)	mg KOH/g	ASTM D974*	0.40	▲ 1.71	---	---

Customer Id: GFL286
Sample No.: PC0062401
Lab Number: 02578862
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Machine Id
DR169
Component
Torque Drive
Fluid
PETRO CANADA ENDURATEX EP 220 (--- GAL)



DIAGNOSIS

Recommendation
The oil change at the time of sampling has been noted. 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 oil.

Fluid Condition
The AN level is above the recommended limit. The oil is no longer serviceable.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info	PC0062401	---	---
Sample Date	Client Info	16 Aug 2023	---	---
Machine Age	hrs Client Info	13758	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS method limit/base current history1 history2

PQ	ASTM D8184*	0	---	---
Iron	ppm ASTM D5185(m) >200	45	---	---
Chromium	ppm ASTM D5185(m) >10	<1	---	---
Nickel	ppm ASTM D5185(m)	0	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m)	0	---	---
Aluminum	ppm ASTM D5185(m) >50	<1	---	---
Lead	ppm ASTM D5185(m) >50	0	---	---
Copper	ppm ASTM D5185(m) >200	<1	---	---
Tin	ppm ASTM D5185(m) >10	0	---	---
Antimony	ppm ASTM D5185(m)	0	---	---
Vanadium	ppm ASTM D5185(m)	0	---	---
Beryllium	ppm ASTM D5185(m)	0	---	---
Cadmium	ppm ASTM D5185(m)	0	---	---

ADDITIVES method limit/base current history1 history2

Boron	ppm ASTM D5185(m) 60	41	---	---
Barium	ppm ASTM D5185(m) 0	0	---	---
Molybdenum	ppm ASTM D5185(m) 0	0	---	---
Manganese	ppm ASTM D5185(m) 0	<1	---	---
Magnesium	ppm ASTM D5185(m) 0	1	---	---
Calcium	ppm ASTM D5185(m) 0	3	---	---
Phosphorus	ppm ASTM D5185(m) 270	429	---	---
Zinc	ppm ASTM D5185(m) 0	25	---	---
Sulfur	ppm ASTM D5185(m) 11200	4495	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

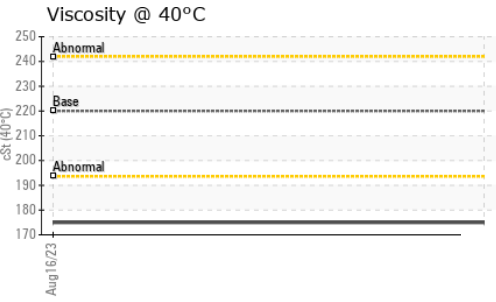
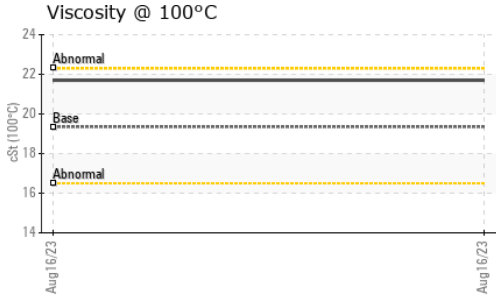
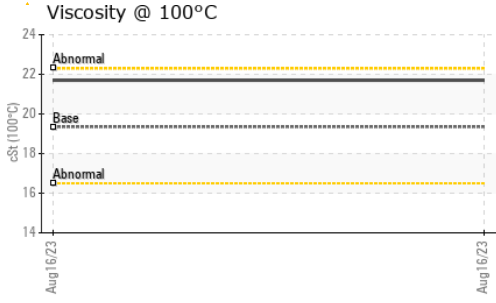
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm ASTM D5185(m) >50	2	---	---
Sodium	ppm ASTM D5185(m)	<1	---	---
Potassium	ppm ASTM D5185(m) >20	<1	---	---

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g ASTM D974*	0.40	▲ 1.71	---	---
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OIL ANALYSIS REPORT

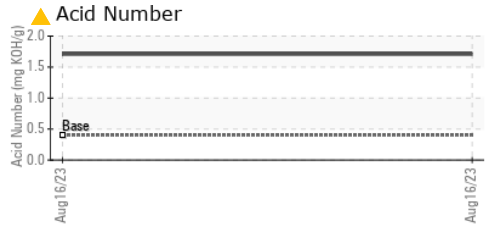
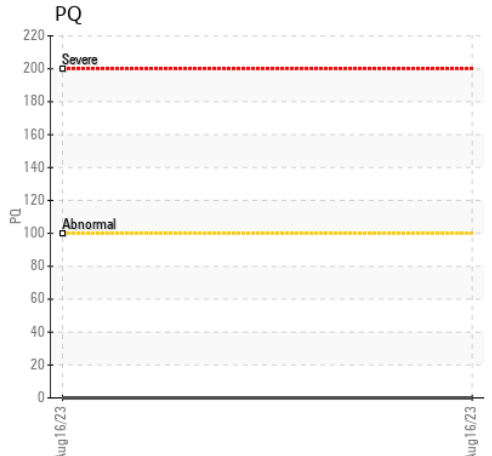
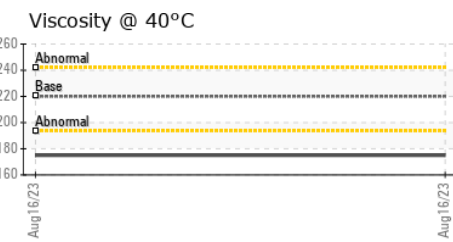
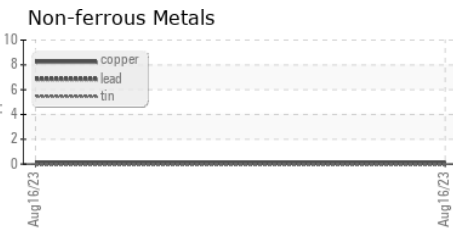
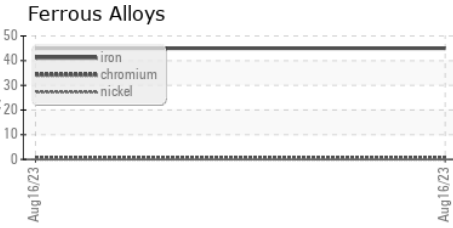


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	220	175	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.35	21.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	99	147	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GPI) - 286 - Shoring & Foundations
Sample No. : PC0062401 **Received** : 28 Aug 2023
Lab Number : 02578862 **Diagnosed** : 29 Aug 2023
Unique Number : 5631922 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: KV100, TAN Man, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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