

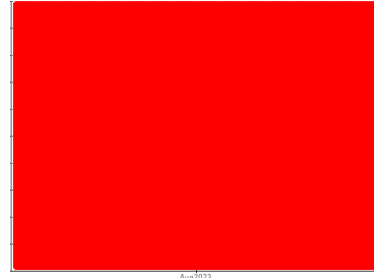
PROBLEM SUMMARY

Sample Rating Trend

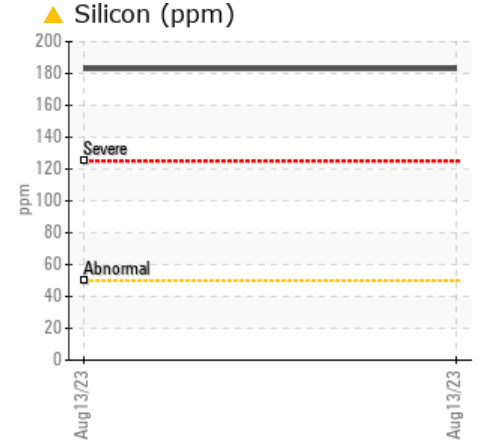
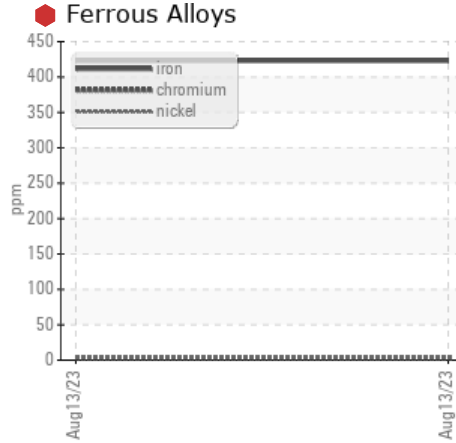
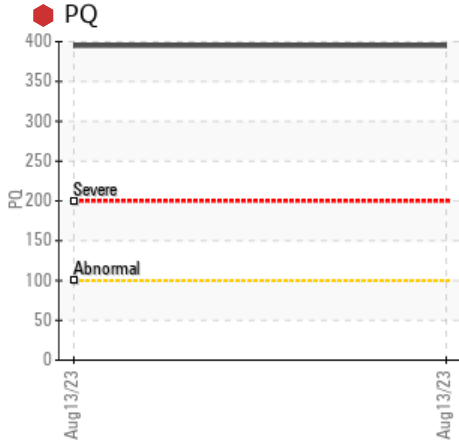
WEAR



Machine Id
North Crane Closing Gearbox
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 220 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity with next sample.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
PQ		ASTM D8184		395	---	---
Iron	ppm	ASTM D5185m	>200	423	---	---
Silicon	ppm	ASTM D5185m	>50	183	---	---

Customer Id: WHENOR
Sample No.: PCA0102294
Lab Number: 05923512
Test Package: PLANT



To manage this report scan the QR code

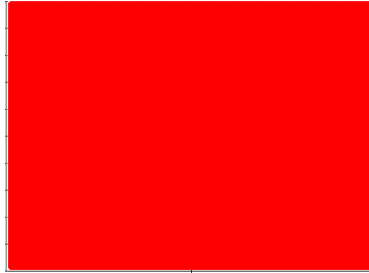
To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS



Machine Id
North Crane Closing Gearbox
 Component
Gearbox
 Fluid
PETRO CANADA ENDURATEX EP 220 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity with next sample.

Wear

Gear wear is indicated.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0102294	---	---
Sample Date	Client Info	13 Aug 2023	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		SEVERE	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	395	---	---
Iron	ppm	ASTM D5185m >200	423	---
Chromium	ppm	ASTM D5185m >10	3	---
Nickel	ppm	ASTM D5185m >10	3	---
Titanium	ppm	ASTM D5185m	3	---
Silver	ppm	ASTM D5185m	0	---
Aluminum	ppm	ASTM D5185m >25	16	---
Lead	ppm	ASTM D5185m >50	0	---
Copper	ppm	ASTM D5185m >200	3	---
Tin	ppm	ASTM D5185m >10	0	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 60	<1	---
Barium	ppm	ASTM D5185m 0	<1	---
Molybdenum	ppm	ASTM D5185m 0	0	---
Manganese	ppm	ASTM D5185m 0	3	---
Magnesium	ppm	ASTM D5185m 0	6	---
Calcium	ppm	ASTM D5185m 0	68	---
Phosphorus	ppm	ASTM D5185m 270	372	---
Zinc	ppm	ASTM D5185m 0	15	---
Sulfur	ppm	ASTM D5185m 11200	15994	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	183	---
Sodium	ppm	ASTM D5185m	4	---
Potassium	ppm	ASTM D5185m >20	4	---

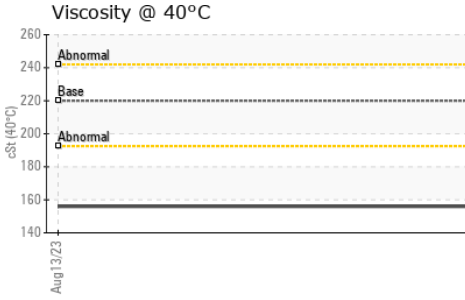
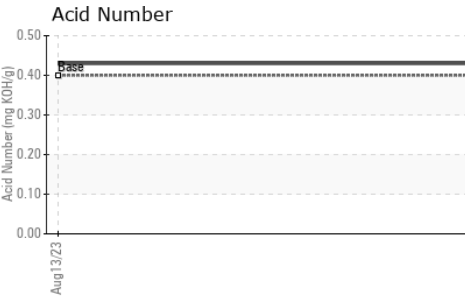
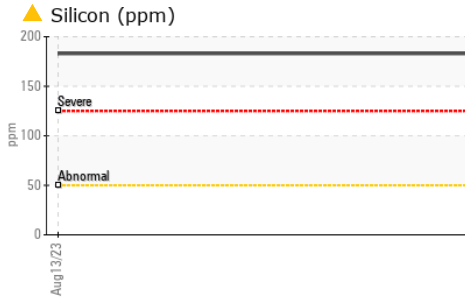
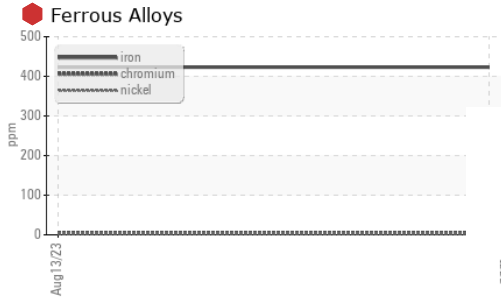
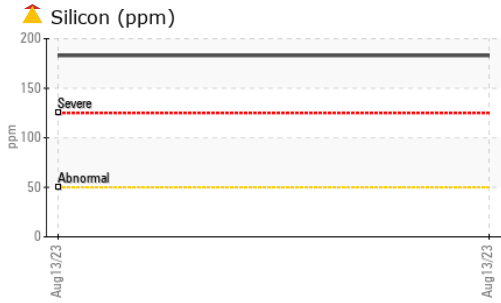
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.40	0.43	---

VISUAL

method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	MODER	---
Yellow Metal	scalar	*Visual NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	---
Silt	scalar	*Visual NONE	NONE	---
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 >0.2	NEG	---
Free Water	scalar	*Visual	NEG	---

OIL ANALYSIS REPORT

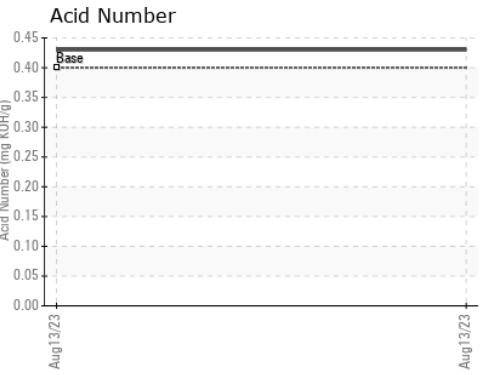
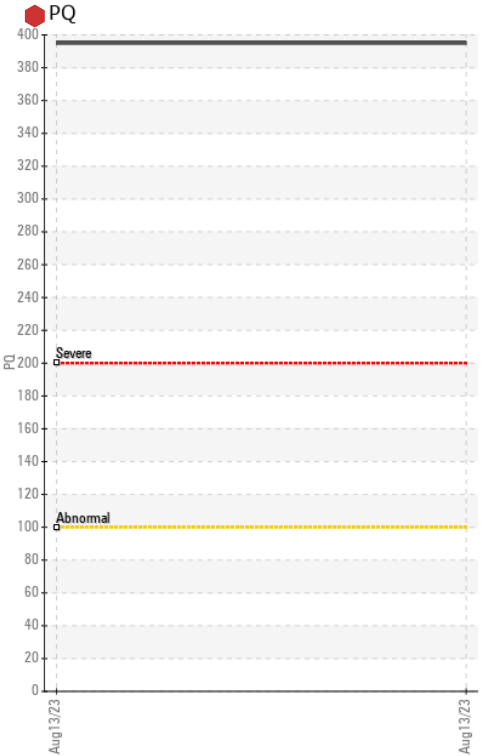
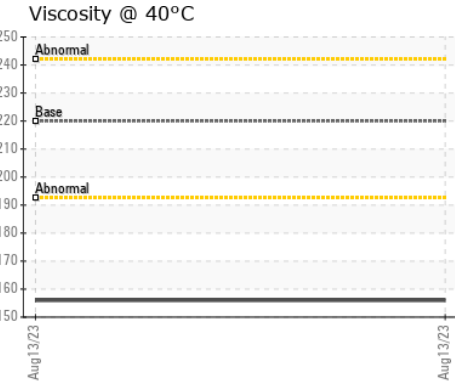
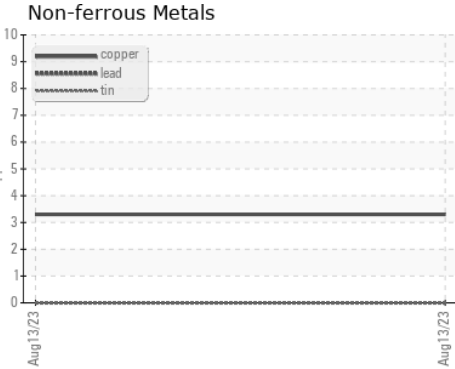
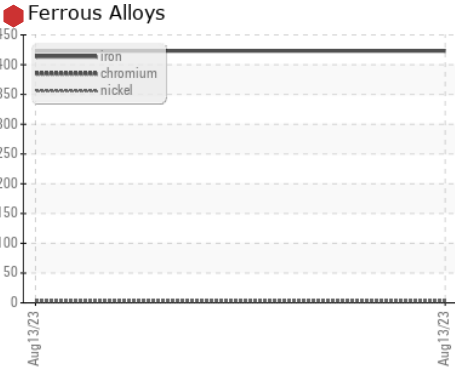


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	156	---	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0102294 **Received** : 14 Aug 2023
Lab Number : **05923512** **Diagnosed** : 15 Aug 2023
Unique Number : 10603459 **Diagnostician** : Doug Bogart
Test Package : PLANT

WHEELABRATOR NORTH
 285 HOLT RD
 NORTH ANDOVER, MA
 US 01845
 Contact: Mitchell White
 mwhite1@win-waste.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)

T:
F: