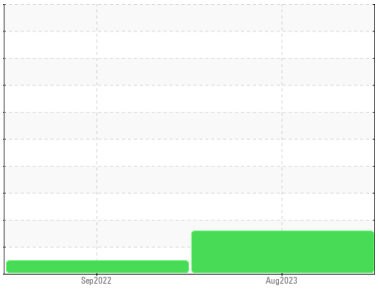
OIL DIAGNOSTICS

PROBLEM SUMMARY

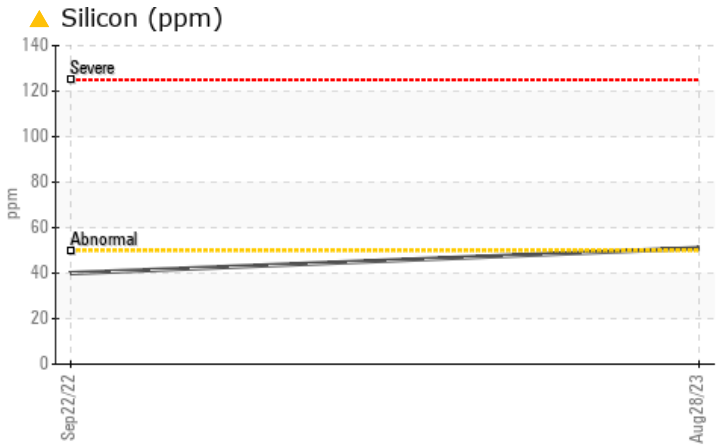
Sample Rating Trend



DIRT

Machine Id
[] CRANE 3 WEST BRIDGE
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 220 (--- 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				**ABNORMAL**	NORMAL	---
Silicon	ppm	ASTM D5185m	>50	▲ **51**	40	---

Customer Id: SDITER
Sample No.: PCA0101516
Lab Number: 05937364
Test Package: PLANT

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

22 Sep 2022 Diag: Wes Davis

NORMAL

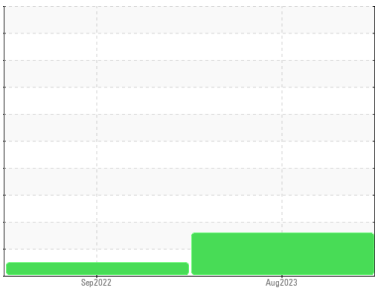
Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
[] CRANE 3 WEST BRIDGE
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 220 (--- GAL)

DIAGNOSIS

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

Wear
All component wear rates are normal.

Contamination
Elemental level of silicon (Si) above normal.

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		**PCA0101516**	PCA0079663	---
Sample Date		Client Info		**28 Aug 2023**	22 Sep 2022	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	Not Changd	---
Sample Status				**ABNORMAL**	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**15**	12	---
Iron	ppm	ASTM D5185m	>200	**33**	29	---
Chromium	ppm	ASTM D5185m	>15	**<1**	0	---
Nickel	ppm	ASTM D5185m	>15	**<1**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	**0**	0	---
Lead	ppm	ASTM D5185m	>100	**<1**	0	---
Copper	ppm	ASTM D5185m	>200	**<1**	<1	---
Tin	ppm	ASTM D5185m	>25	**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	60	**2**	4	---
Barium	ppm	ASTM D5185m	0	**23**	5	---
Molybdenum	ppm	ASTM D5185m	0	**0**	<1	---
Manganese	ppm	ASTM D5185m	0	**<1**	<1	---
Magnesium	ppm	ASTM D5185m	0	**2**	2	---
Calcium	ppm	ASTM D5185m	0	**12**	11	---
Phosphorus	ppm	ASTM D5185m	270	**217**	209	---
Zinc	ppm	ASTM D5185m	0	**18**	13	---
Sulfur	ppm	ASTM D5185m	11200	**12920**	13192	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	▲ **51**	40	---
Sodium	ppm	ASTM D5185m		**0**	0	---
Potassium	ppm	ASTM D5185m	>20	**<1**	1	---

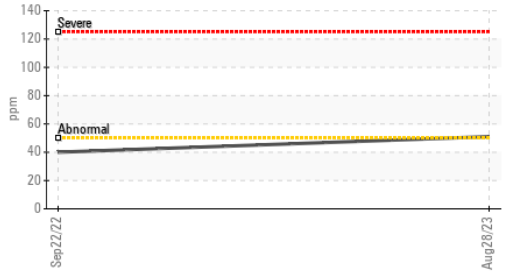
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	**0.46**	0.44	---

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	**LIGHT**	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	---

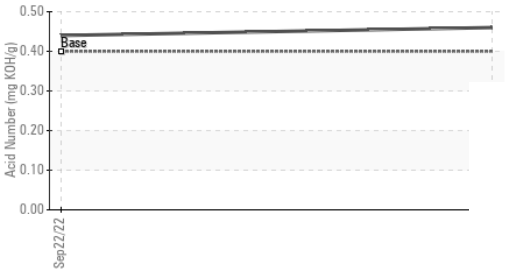
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

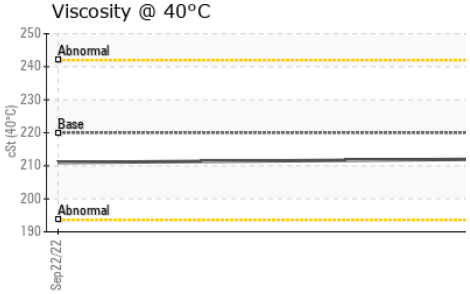
Silicon (ppm)



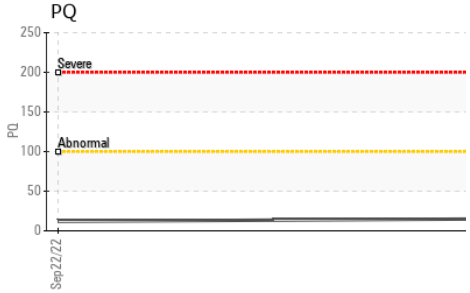
Acid Number



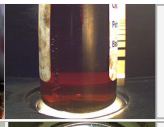
Viscosity @ 40°C



PQ

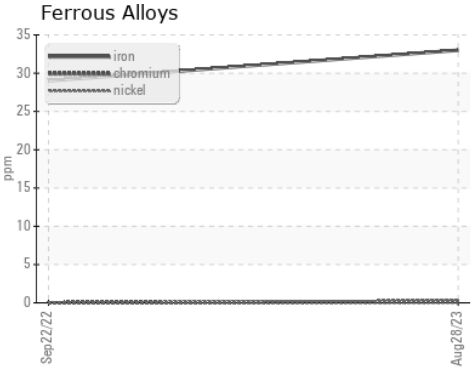


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	**212**	211	---

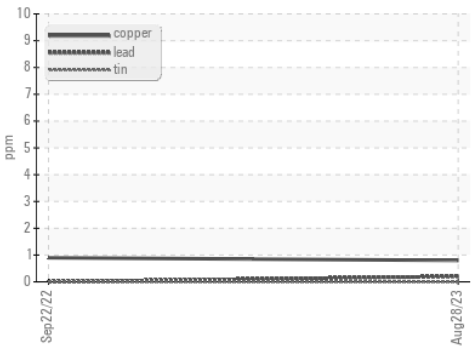
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

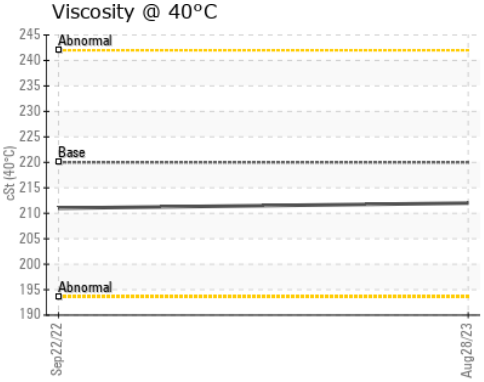
Ferrous Alloys



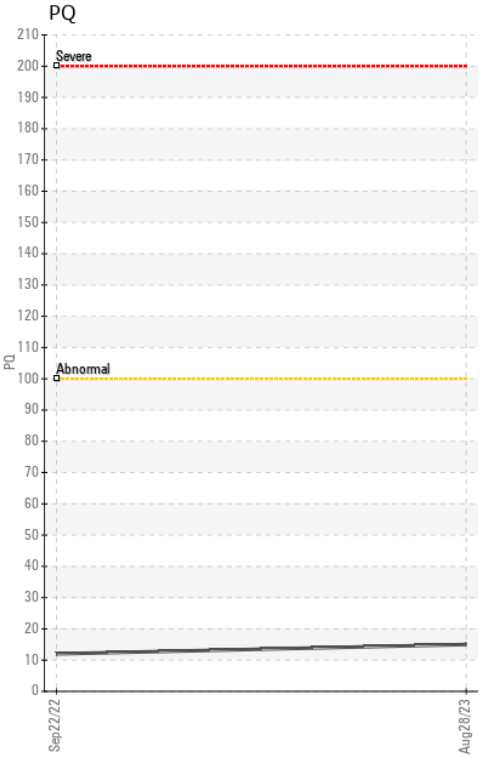
Non-ferrous Metals



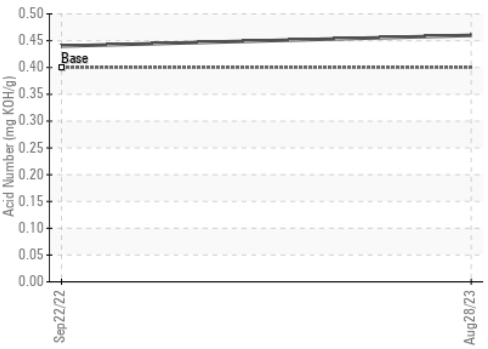
Viscosity @ 40°C



PQ



Acid Number



ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: PCA0101516	**Received**	: 29 Aug 2023
Lab Number	: 05937364	**Diagnosed**	: 30 Aug 2023
Unique Number	: 10622635	**Diagnostician**	: Don Baldridge
Test Package	: PLANT		

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)

SDI - Steel DynamicsInc. - Heartland
455 West Industrial Drive
Terre Haute, IN
US 47802
Contact: BRAD ELLIS
brad.ellis@steeldynamics.com
T:
F: