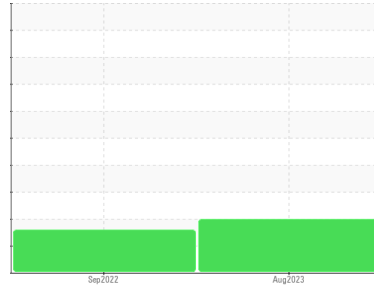




PROBLEM SUMMARY

Sample Rating Trend

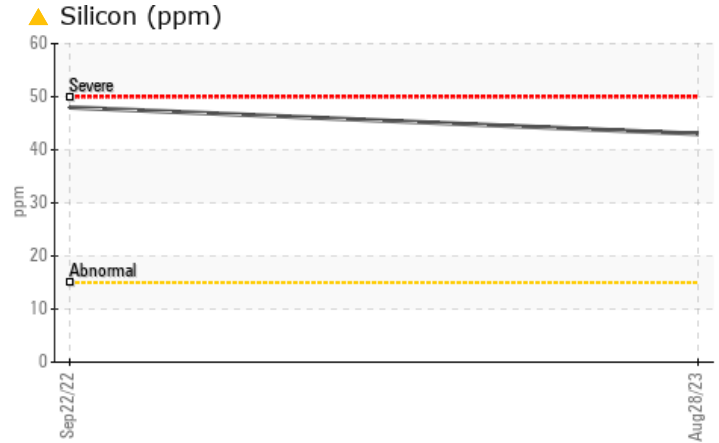
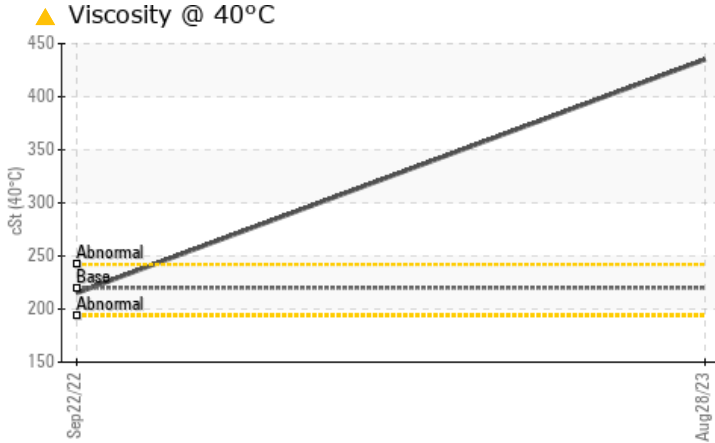


Machine Id
CRANE 11

Component
Main Hoist

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	ABNORMAL	---
Silicon	ppm	ASTM D5185m	>15	▲ 43	▲ 48	---
Visc @ 40°C	cSt	ASTM D445	220	▲ 435.1	215	---

Customer Id: SDITER
 Sample No.: PCA0101448
 Lab Number: 05937353
 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

22 Sep 2022 Diag: Jonathan Hester

DIRT



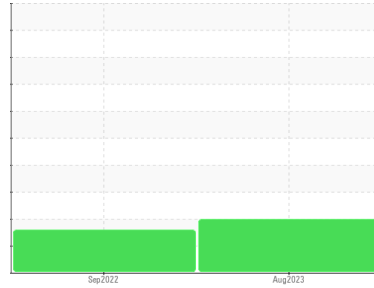
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
CRANE 11

Component
Main Hoist

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**
Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0101448	PCA0079659	---
Sample Date	Client Info	28 Aug 2023	22 Sep 2022	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	Not Changd	---
Sample Status		ABNORMAL	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	30	7	---
Iron	ppm	ASTM D5185m >20	7	6
Chromium	ppm	ASTM D5185m >20	0	0
Nickel	ppm	ASTM D5185m >20	<1	0
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >20	1	0
Lead	ppm	ASTM D5185m >20	0	0
Copper	ppm	ASTM D5185m >20	<1	<1
Tin	ppm	ASTM D5185m >20	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	0	<1
Barium	ppm	ASTM D5185m 0	8	0
Molybdenum	ppm	ASTM D5185m 0	0	0
Manganese	ppm	ASTM D5185m 0	<1	0
Magnesium	ppm	ASTM D5185m 0	1	0
Calcium	ppm	ASTM D5185m 0	5	2
Phosphorus	ppm	ASTM D5185m 270	460	84
Zinc	ppm	ASTM D5185m 0	45	0
Sulfur	ppm	ASTM D5185m 11200	292	11887

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	▲ 43	▲ 48
Sodium	ppm	ASTM D5185m	0	0
Potassium	ppm	ASTM D5185m >20	<1	1

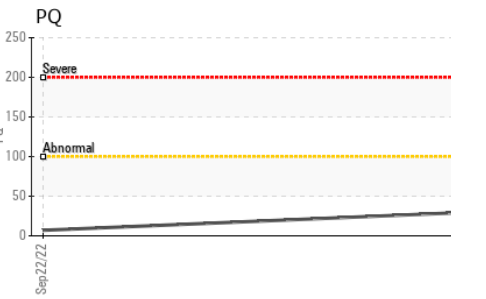
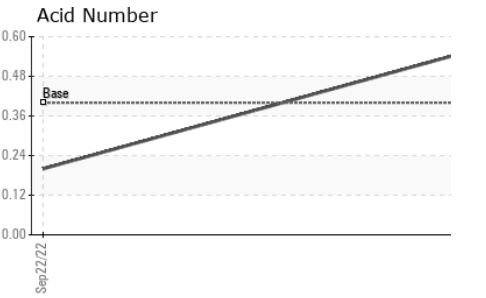
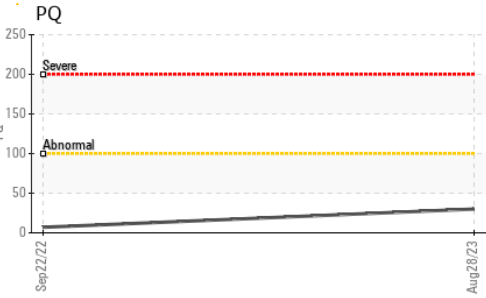
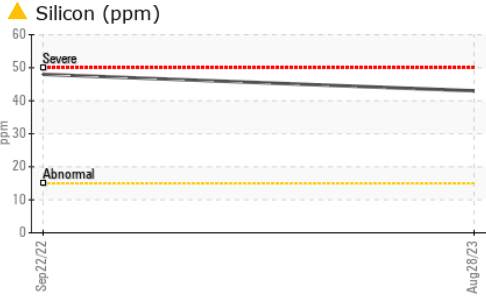
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.40	0.56	0.20

VISUAL

method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	LIGHT	VLITE
Yellow Metal	scalar	*Visual NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.05	NEG	NEG
Free Water	scalar	*Visual	NEG	---

OIL ANALYSIS REPORT



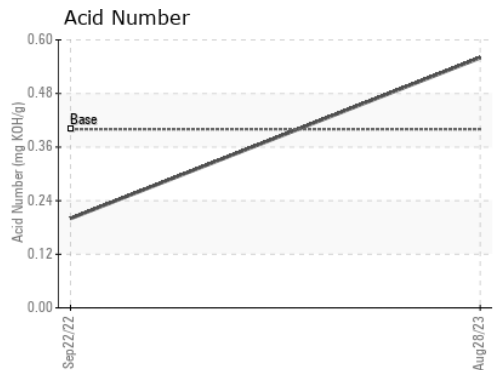
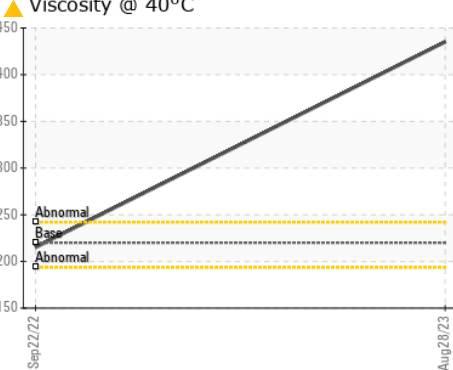
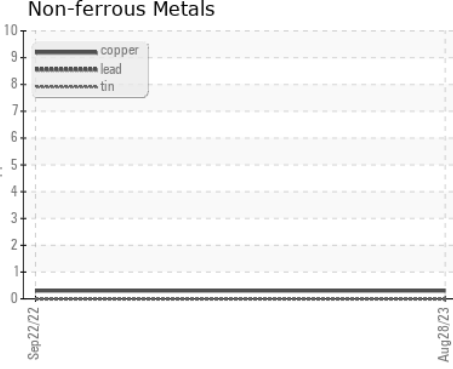
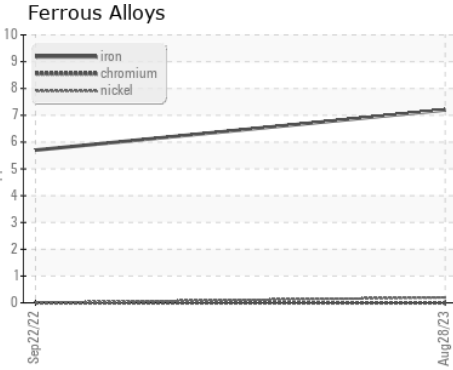
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	▲ 435.1	215	---

SAMPLE IMAGES

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0101448 **Received** : 29 Aug 2023
Lab Number : 05937353 **Diagnosed** : 04 Sep 2023
Unique Number : 10622624 **Diagnostician** : Doug Bogart
Test Package : PLANT

SDI - Steel Dynamics Inc. - Heartland
 455 West Industrial Drive
 Terre Haute, IN
 US 47802
 Contact: BRAD ELLIS
 brad.ellis@steeldynamics.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: