

PROBLEM SUMMARY

Sample Rating Trend

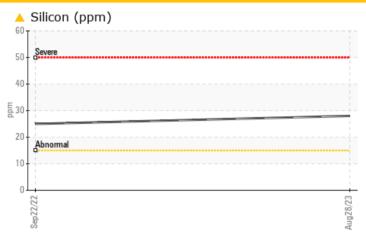
DIRT

Machine Id CRANE 15

Main Hoist

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	<u>^</u> 28	<u>^</u> 25					

Customer Id: SDITER
Sample No.: PCA0101511
Lab Number: 05937357
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: 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.





OIL ANALYSIS REPORT

Sample Rating Trend



[] CRANE 15

Main Hoist

PETRO CANADA ENDURATEX EP 220 (---

DIAGNOSIS

Recommendation

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

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

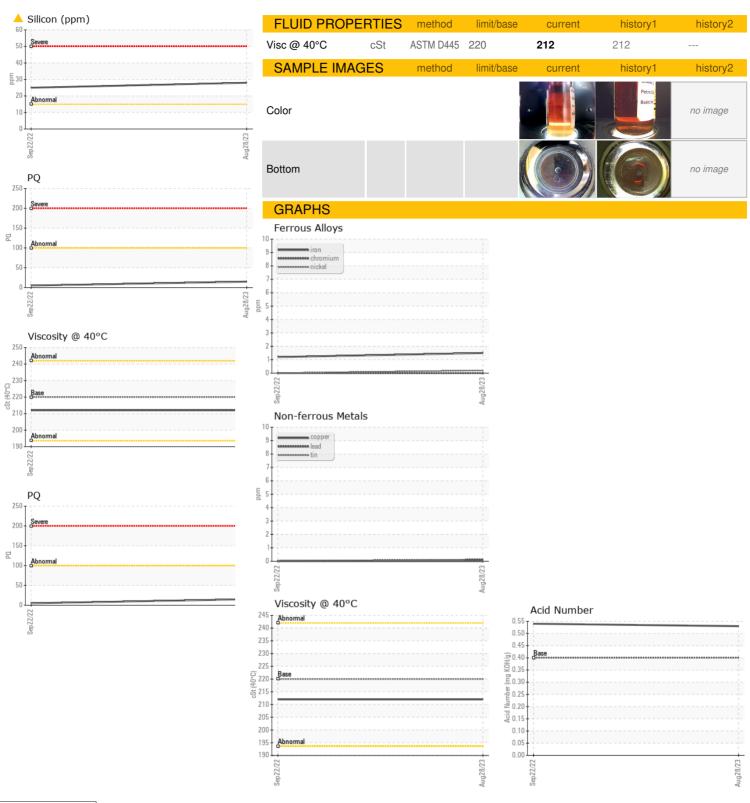
Fluid Condition

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

0.41.\						
GAL)			Sep2022	Aug2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0101511	PCA0079669	
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	5	Client Info		Not Changd	Not Changd	
Sample Status		5		ABNORMAL	ABNORMAL	
WEAR METAL	.S	method	limit/base	current	history1	history2
PQ		ASTM D8184		15	5	
Iron	ppm	ASTM D5185m	>20	2	1	
Chromium	ppm	ASTM D5185m	>20	0	0	
Nickel	ppm	ASTM D5185m	>20	<1	0	
Titanium	ppm	ASTM D5185m	<i>></i> L0	<1 <1	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum		ASTM D5185m	>20	0	0	
	ppm					
Lead	ppm	ASTM D5185m	>20	<1	0	
Copper	ppm	ASTM D5185m	>20	0	0	
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	6	6	
Barium	ppm	ASTM D5185m	0	28	12	
Molybdenum	ppm	ASTM D5185m	0	<1	<1	
Manganese	ppm	ASTM D5185m	0	0	0	
Magnesium	ppm	ASTM D5185m	0	1	1	
Calcium	ppm	ASTM D5185m	0	14	14	
Phosphorus	ppm	ASTM D5185m	270	212	204	
Zinc	ppm	ASTM D5185m	0	8	4	
Sulfur	ppm	ASTM D5185m	11200	11464	13230	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	28	<u>^</u> 25	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	<1	2	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.53	0.54	
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	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	
Free Water		*Visual	ZU.UU	NEG	ocation GBRAD B	IIIS SDITER
i iee vvalei	scalar	Visual		IVEG	COUNTY DI IVD I	-LLIG- ODITLE



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10622628

: PCA0101511 : 05937357 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Aug 2023 : 30 Aug 2023 Diagnosed

Diagnostician : Don Baldridge

SDI - Steel DynamicsInc. - Heartland 455 West Industrial Drive

Terre Haute, IN US 47802

Contact: BRAD ELLIS brad.ellis@steeldynamics.com

T:

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)

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