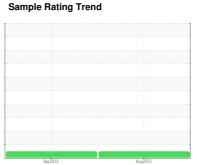


# **OIL ANALYSIS REPORT**



**NORMAL** 



# Machine Id CRANE 9 TROLLEY

Gearbox

PETRO CANADA ENDURATEX EP 220 (---

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

#### **Fluid Condition**

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

GAL)			Sep 2022	Aug 2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0101603	PCA0080278	
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				NORMAL	NORMAL	
WEAR METAI	LS	method	limit/base	current	history1	history2
PQ		ASTM D8184		19	7	
Iron	ppm	ASTM D5185m	>200	5	3	
Chromium	ppm	ASTM D5185m	>15	0	0	
Nickel	ppm	ASTM D5185m	>15	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm		>25	0	0	
Lead	ppm		>100	0	<1	
Copper	ppm	ASTM D5185m	>200	1	<1	
Tin	ppm		>25	0	<1	
Vanadium	ppm	ASTM D5185m	720	0	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	60	11	13	
Barium	ppm	ASTM D5185m		12	0	
Molybdenum	ppm	ASTM D5185m	0	0	<1	
Manganese	ppm		0	0	<1	
Magnesium	ppm	ASTM D5185m	0	<1	1	
Calcium	ppm	ASTM D5185m		9	8	
Phosphorus	ppm	ASTM D5185m	270	184	174	
Zinc	ppm	ASTM D5185m		11	6	
Sulfur	ppm	ASTM D5185m	11200	7726	8380	
CONTAMINAL		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	17	10	1110101 92
Sodium	ppm	ASTM D5185m	>50	0	0	
Potassium	ppm	ASTM D5185m	>20	<1	1	
FLUID DEGRA		method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045	0.40	0.33	0.31	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	
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	
		*Visual	NORML	NONE	NORML	
Appearance Odor	scalar		NORML	NORML	NORML	
	scalar	*Visual				
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	

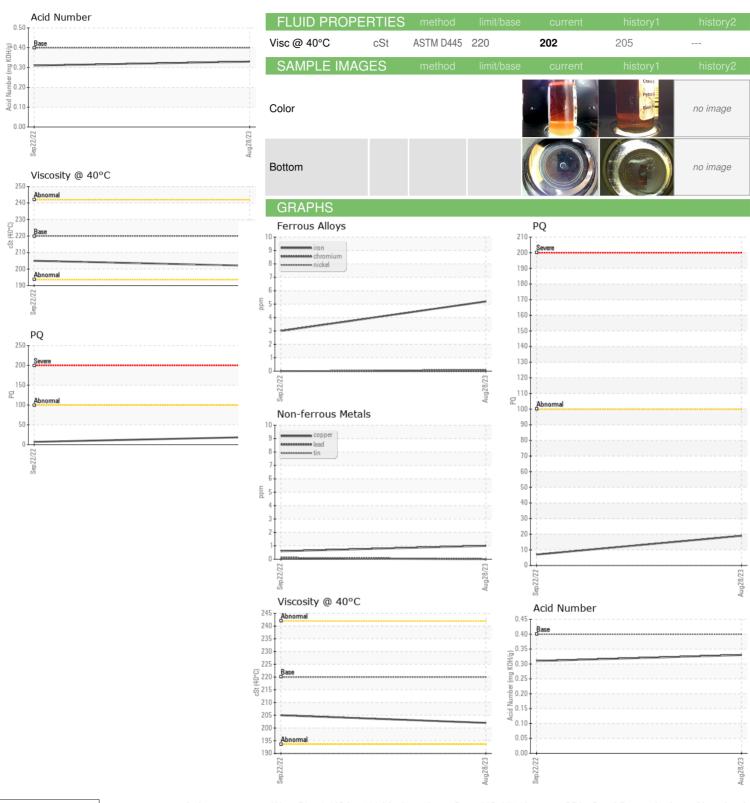
ocatine BRAD ELLIS - SDITER

NEG

scalar \*Visual



# **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10622653 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0101603 Received : 29 Aug 2023 : 05937382 Diagnosed

: 30 Aug 2023 Diagnostician : Wes Davis

SDI - Steel DynamicsInc. - Heartland 455 West Industrial Drive

Terre Haute, IN US 47802 Contact: BRAD ELLIS

brad.ellis@steeldynamics.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:

F: