

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id CRANE 10

Component Main Hoist

PETRO CANADA ENDURATEX EP 220 (---

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

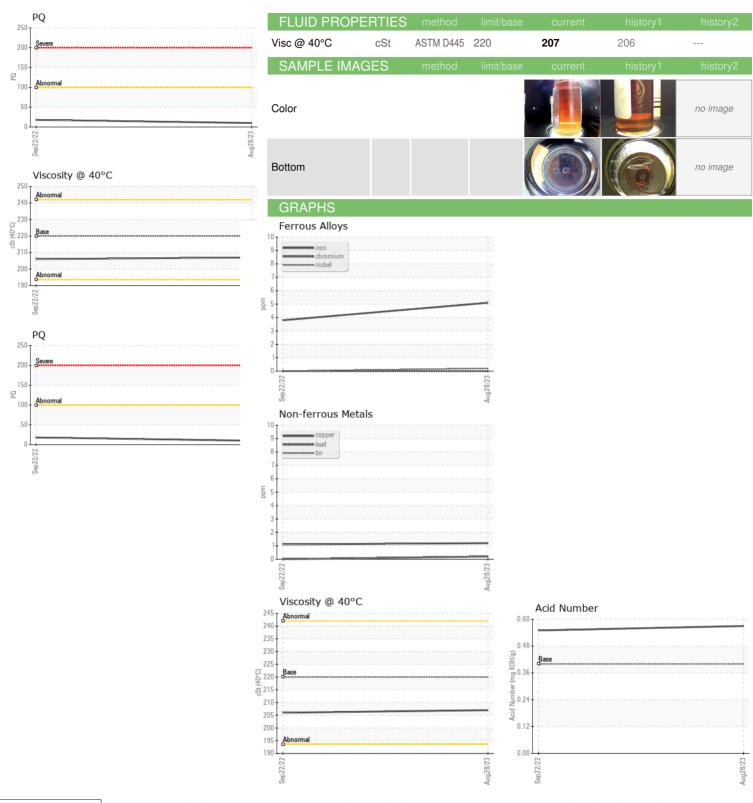
Fluid Condition

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

GAL)						
JAL)			Sep2022	Aug2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0101566	PCA0080286	
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 METAL	.S	method	limit/base	current	history1	history2
PQ		ASTM D8184		10	18	
ron	ppm	ASTM D5185m	>20	5	4	
Chromium	ppm	ASTM D5185m	>20	0	0	
lickel	ppm	ASTM D5185m	>20	<1	0	
itanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	0	
lluminum	ppm	ASTM D5185m	>20	0	0	
.ead	ppm	ASTM D5185m	>20	<1	0	
Copper	ppm	ASTM D5185m	>20	1	1	
in .	ppm	ASTM D5185m		<1	0	
/anadium	ppm	ASTM D5185m	7 = 0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	PPIII		limit/base			history2
		method		current	history1	,
Boron	ppm	ASTM D5185m	60	12	9	
Barium	ppm	ASTM D5185m	0	2	0	
/lolybdenum	ppm	ASTM D5185m	0	<1	0	
Manganese	ppm	ASTM D5185m	0	0	<1	
/lagnesium	ppm	ASTM D5185m	0	1	0	
Calcium	ppm	ASTM D5185m	0	22	20	
Phosphorus	ppm	ASTM D5185m	270	274	270	
Zinc	ppm	ASTM D5185m	0	17	16	
Sulfur	ppm	ASTM D5185m	11200	8138	8644	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	10	8	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	0	0	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.57	0.55	
VISUAL		method	limit/base	current	history1	history2
Vhite Metal	scalar	*Visual	NONE	NONE	NONE	
'ellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Gilt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	VLITE	
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	ocative GBRAD I	ELLIS - SDITE



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Certificate L2367

Laboratory Sample No. Lab Number Test Package : PLANT

: 05937409 Unique Number : 10622680

: PCA0101566

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

: 30 Aug 2023

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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