

OIL ANALYSIS REPORT

Sample Number

Sample Rating Trend

Client Info

NORMAL

PCA0089502

PCA0095467

Pickle Line Machine Id [Pickle Line] 545065-SBRKR EXIT BRDL ROLL # 1

Gearbox

PETRO CANADA ENDURATEX EP 220 (--- GAL)

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.



PCA0101451

Gampie Number		Olicit IIIIO		1 040101431	1 0/10000407	1 0/10003302
Sample Date		Client Info		22 Aug 2023	23 May 2023	23 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION
WEAR METALS	S	method	limit/base	current	history1	history2
PQ		ASTM D8184		12	12	46
Iron	ppm	ASTM D5185m	>200	5	30	<u>▲</u> 107
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	3
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	60	74	4	23
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1	<1	<1
Calcium	ppm	ASTM D5185m	0	2	3	6
Phosphorus	ppm	ASTM D5185m	270	283	132	159
Zinc	ppm	ASTM D5185m	0	0	2	7
Sulfur	ppm	ASTM D5185m	11200	8185	8036	7126
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5	7	6
Sodium	ppm	ASTM D5185m		<1	<1	1
Potassium	ppm	ASTM D5185m	>20	1	2	<1
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.45	0.26	0.48
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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Silt

Debris

Odor

Sand/Dirt

Appearance

Emulsified Water

scalar *Visual

scalar *Visual

*Visual

*Visual

*Visual

*Visual

*Visual

scalar

scalar

scalar

scalar

scalar

NONE

NONE

NONE

NORML

NORML

>0.2

NONE

NONE

NONE

NORML

NORML

NEG

NEG

LIGHT

NONE

NONE

NORML

NORML

NEG

NONE

NONE

NONE

NORML

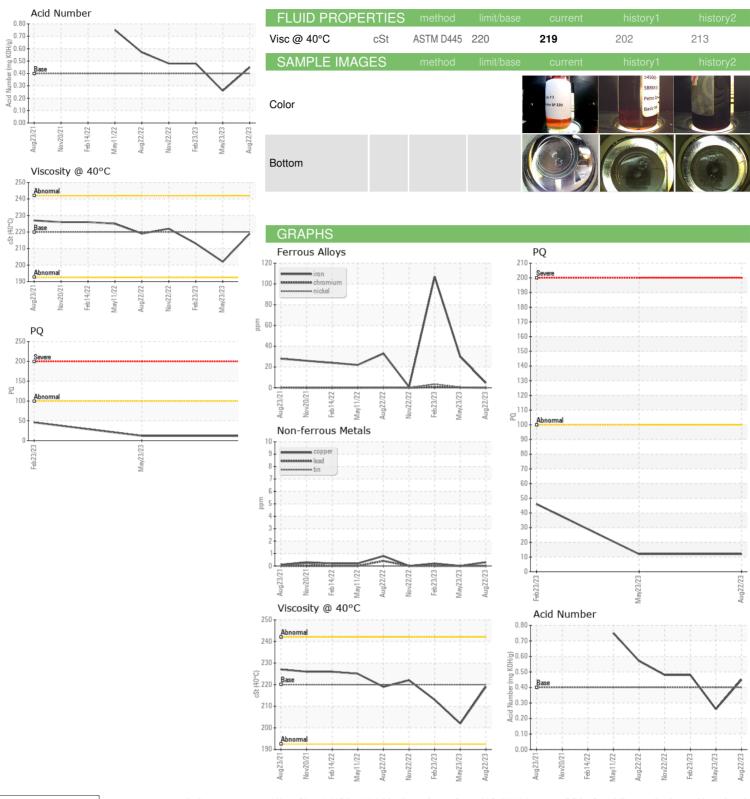
NORML

NEG

ocatine BRAD ELLISIES DITER



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: PCA0101451 : 05932893 : 10618164 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Aug 2023

: 24 Aug 2023 Diagnosed : Wes Davis Diagnostician

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. T:

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)

F: