

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

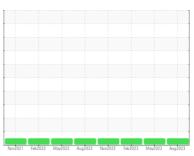
# **NORMAL**



# [Temper Mill] 230135-DELIVERY TENSION REEL

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.

GAL)		Nov2021 F	Feb 2022 May 2022 Aug 20	022 Nov2022 Feb2023 May202	3 Aug2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0101479	PCA0095450	PCA0089529
Sample Date		Client Info		01 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	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	.S	method	limit/base	current	history1	history2
PQ		ASTM D8184		23	14	17
Iron	ppm	ASTM D5185m	>200	71	55	60
Chromium	ppm	ASTM D5185m	>15	3	3	3
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	<1	1	2
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	8	6	7
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	60	7	4	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	0	1	0	0
Calcium	ppm	ASTM D5185m	0	<1	2	2
Phosphorus	ppm	ASTM D5185m	270	227	204	189
Zinc	ppm	ASTM D5185m	0	12	7	12
Sulfur	ppm	ASTM D5185m	11200	13304	14182	12066
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11	8	9
Sodium	ppm	ASTM D5185m		2	<1	0
Potassium	ppm	ASTM D5185m	>20	3	3	<1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.75	0.73	0.70
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
Silt	scalar	*Visual	NONE	NONE	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
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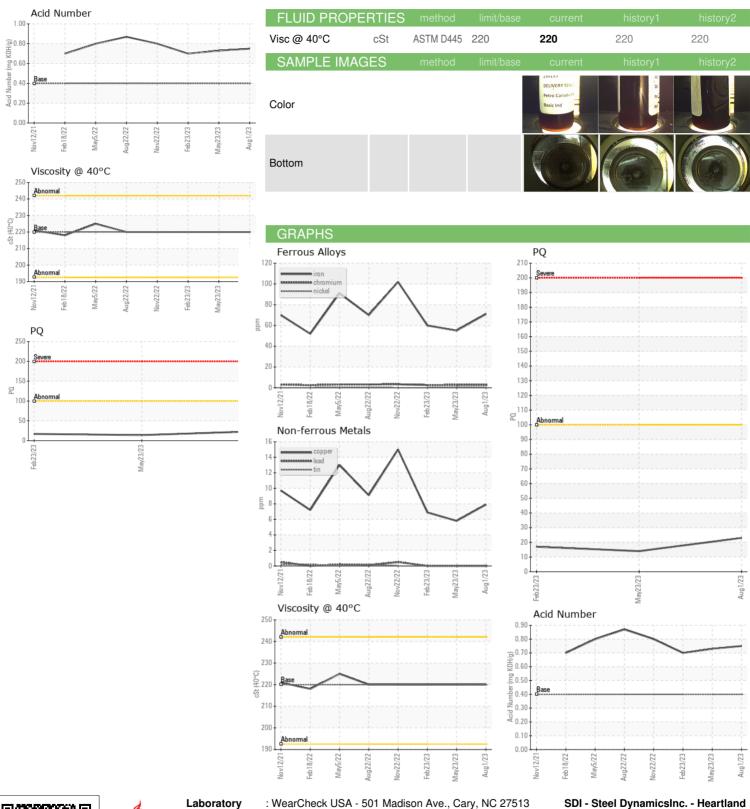
ocative BRAD ELLISIES DITER

**NEG** 

scalar \*Visual



### **OIL ANALYSIS REPORT**





Certificate L2367

Report Id: SDITER [WUSCAR] 05924416 (Generated: 08/15/2023 15:32:48) Rev: 1

Laboratory Sample No. Lab Number **Unique Number** Test Package : PLANT

: 05924416

: PCA0101479 Received : 14 Aug 2023 : 15 Aug 2023 Diagnosed : 10604363 : Wes Davis Diagnostician

SDI - Steel DynamicsInc. - 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: