

# **OIL ANALYSIS REPORT**

# Pickle Line [Pickle Line] 520150-FLATTENER 1

Gearbox

PETRO CANADA ENDURATEX EP 220 (--- GAL)

Sample Rating Trend



## 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)		Aug2021	Jan2022 Jul2022	Jan2023 Jul2023	Feb 2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112941	PCA0101621	PCA0095494
Sample Date		Client Info		14 Feb 2024	25 Oct 2023	01 Jul 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	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
PQ		ASTM D8184		8	13	
Iron	ppm	ASTM D5185m	>200	6	7	7
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	60	7	8	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	11	12	11
Phosphorus	ppm	ASTM D5185m	270	257	246	266
Zinc	ppm	ASTM D5185m	0	0	10	7
Sulfur	ppm	ASTM D5185m	11200	9341	9329	11851
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6	7	6
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2

0.37

Acid Number (AN)

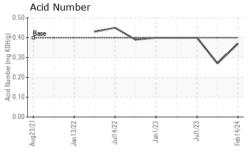
mg KOH/g ASTM D8045 0.40

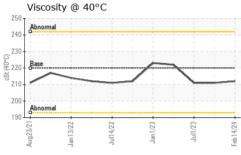
0.27

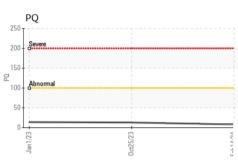
0.40



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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	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROP	EKITES	method	ilmit/base	current	nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445	220	212	211	211

SAMPLE IMAGES

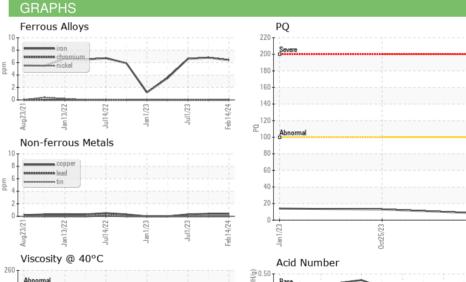
Color

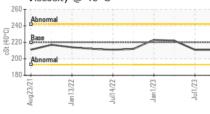
**Bottom** 

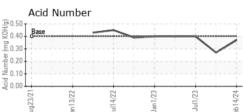














Laboratory Sample No. Lab Number : 06091090

: PCA0112941 Unique Number: 10883943

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Feb 2024 **Tested** 

: 16 Feb 2024 : 16 Feb 2024 - Wes Davis Diagnosed

Feb14/24 -

SDI - Steel DynamicsInc. - Heartland

455 West Industrial Drive Terre Haute, IN US 47802

Contact: BRAD ELLIS

Test Package : PLANT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

brad.ellis@steeldynamics.com T:

\* - 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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