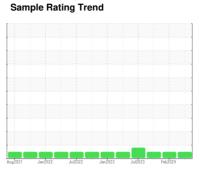


# **OIL ANALYSIS REPORT**

# **Pickle Line** [Pickle Line] 515170-#1 BRIDLE ROLL # 2

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)		Aug2021	Jan2022 Jul2022	Jan2023 Jul2023 Fe	52024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0117638	PCA0112992	PCA0107688
Sample Date		Client Info		08 Apr 2024	14 Feb 2024	25 Oct 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	ION	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		68	52	29
Iron	ppm	ASTM D5185m	>200	91	67	79
Chromium	ppm	ASTM D5185m	>15	0	0	<1
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	1	<1	1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	<1	<1
Tin	ppm	ASTM D5185m	>25	<1	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	52	69	52
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	2	0	1
Calcium	ppm	ASTM D5185m	0	11	5	14
Phosphorus	ppm	ASTM D5185m	270	232	246	211
Zinc	ppm	ASTM D5185m	0	0	0	7
Sulfur	ppm	ASTM D5185m	11200	6786	5730	5732
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	14	10	15
Sodium	ppm	ASTM D5185m		2	<1	2
Potassium	ppm	ASTM D5185m	>20	0	0	<1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2

0.35

Acid Number (AN)

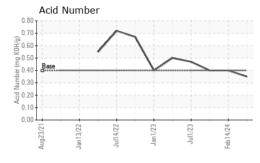
mg KOH/g ASTM D8045 0.40

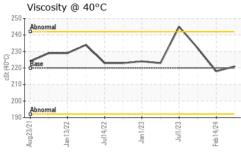
0.40

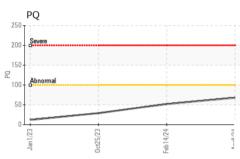
0.40



# **OIL ANALYSIS REPORT**







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	LIGHT	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

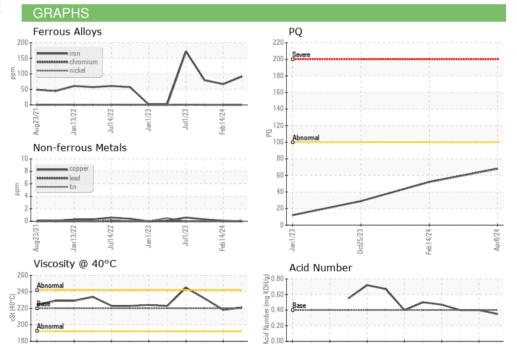
L LOID PROPI	ERITES	method			riistory i	HIStory∠
Visc @ 40°C	cSt	ASTM D445	220	221	218	232

SAMP	LE IN	MAGES
C/ tivii		", LOLO

Color

**Bottom** 









Certificate 12367

Laboratory Sample No.

Lab Number : 06142412

: PCA0117638 Unique Number : 10967220

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Apr 2024

Jan 1/23 -

Jul14/22

**Tested** : 09 Apr 2024 Diagnosed

Feb 14/24

: 09 Apr 2024 - Wes Davis

SDI - Steel DynamicsInc. - Heartland 455 West Industrial Drive

Terre Haute, IN US 47802 Contact: BRAD ELLIS

brad.ellis@steeldynamics.com T:

Test Package : PLANT 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)

Report Id: SDITER [WUSCAR] 06142412 (Generated: 04/09/2024 16:30:55) Rev: 1

Contact/Location: BRAD ELLIS - SDITER

F: