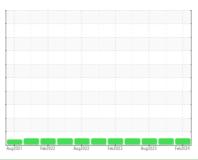


OIL ANALYSIS REPORT

Pickle Line [Pickle Line] 545010-SBRKR ENT BRDL ROLL # 1 Component

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	Feb2022 Aug2022	Feb2023 Aug2023	Feb 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112931	PCA0107667	PCA0101449
Sample Date		Client Info		13 Feb 2024	26 Nov 2023	22 Aug 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		23		14
Iron	ppm	ASTM D5185m	>200	22	25	5
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	0	<1	<1
Tin	ppm	ASTM D5185m	>25	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	60	14	14	73
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1	2	<1
Calcium	ppm	ASTM D5185m	0	8	10	2
Phosphorus	ppm	ASTM D5185m	270	252	234	283
Zinc	ppm	ASTM D5185m		5	0	0
Sulfur	ppm	ASTM D5185m	11200	8280	8795	8186
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	11	10	5
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	0	1	1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2

0.39

Acid Number (AN)

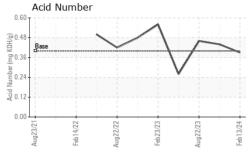
mg KOH/g ASTM D8045 0.40

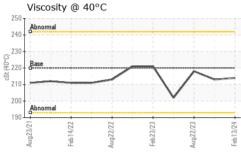
0.44

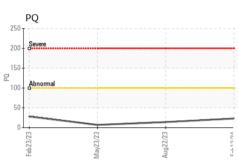
0.46



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	NONE	LIGHT	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
Free Water	scalar	*Visual		NEG	NEG	NEG

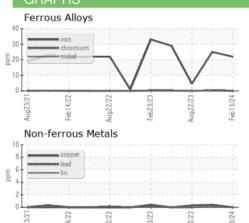
FLUID PROPE	RTIES	method				history2
Visc @ 40°C	cSt	ASTM D445	220	214	213	218

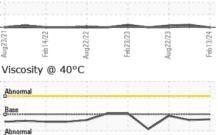
SAMPLE IMAGES

Bottom

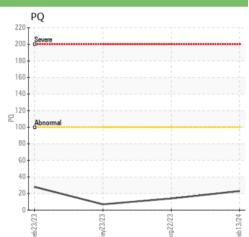
Color

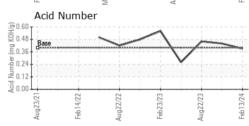
GRAPHS





Feb23/23







Certificate L2367

Laboratory Sample No. Lab Number : 06088303 Unique Number : 10875748

240 (240 (200+) 220

200

180

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0112931

Received **Tested**

: 13 Feb 2024 : 14 Feb 2024 : 14 Feb 2024 - Wes Davis Diagnosed

Feb13/24

SDI - Steel DynamicsInc. - Heartland

455 West Industrial Drive Terre Haute, IN US 47802

Contact: BRAD ELLIS

Test Package : PLANT 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)

F: