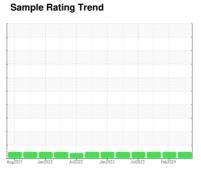


OIL ANALYSIS REPORT

Pickle Line [Pickle Line] 515170-#1 BRIDLE 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

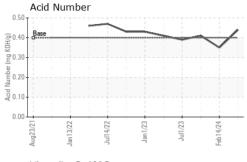
Fluid Condition

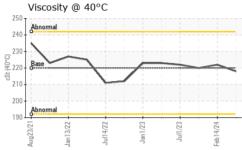
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

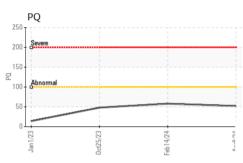
GAL)		Aug2021	Jan 2022 Jul 2022	Jan2023 Jul2023 Fe	b2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0117637	PCA0112991	PCA0107687
Sample Date		Client Info		08 Apr 2024	14 Feb 2024	25 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		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		52	58	48
Iron	ppm	ASTM D5185m	>200	57	95	57
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	<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	65	54	69
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	0	0	0
Calcium	ppm	ASTM D5185m	0	<1	12	8
Phosphorus	ppm	ASTM D5185m	270	246	218	240
Zinc	ppm	ASTM D5185m	0	0	<1	2
Sulfur	ppm	ASTM D5185m	11200	6592	5609	5714
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	9	14	11
Sodium	ppm	ASTM D5185m		<1	2	1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.44	0.35	0.41



OIL ANALYSIS REPORT







White Metal scalar	*Visual	NONE	NONE	LICUT	NONE
	40 P		NONE	LIGHT	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

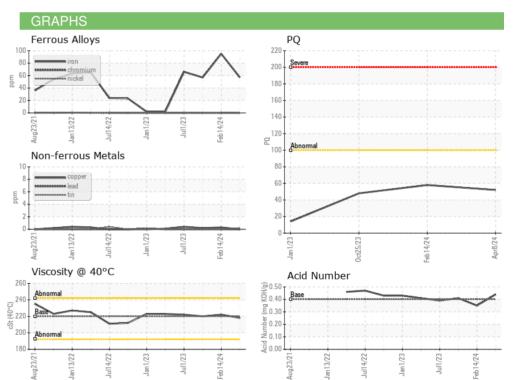
LEGID PROP	ERITES	method			riistory i	HISTORY
Visc @ 40°C	cSt	ASTM D445	220	218	222	220

SAMP	LE IN	1AGES

Color

Bottom









Certificate 12367

Report Id: SDITER [WUSCAR] 06142413 (Generated: 04/09/2024 16:30:46) Rev: 1

Laboratory Sample No.

Lab Number : 06142413

: PCA0117637 Unique Number : 10967221 Test Package : PLANT

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

Received : 08 Apr 2024 **Tested** : 09 Apr 2024

Diagnosed : 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

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)

Contact/Location: BRAD ELLIS - SDITER

T:

F: