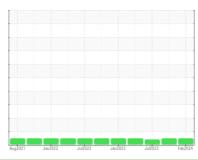


OIL ANALYSIS REPORT

Pickle Line [Pickle Line] 540005-# 2 BRIDLE ROLL # 2

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

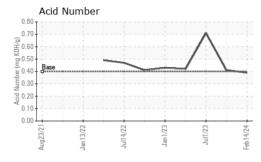
Fluid Condition

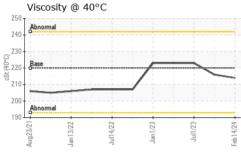
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

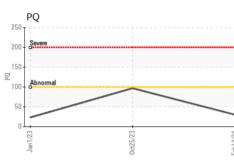
GAL)		Aug2021	Jan2022 Jul2022	Jan 2023 Jul 2023	Feb 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0101545	PCA0107692	PCA0101581
Sample Date		Client Info		14 Feb 2024	25 Oct 2023	01 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
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		30	97	
Iron	ppm	ASTM D5185m	>200	34	39	57
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Titanium	ppm	ASTM D5185m	710	<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	720	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	p p · · ·	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	60	53	50	13
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	0	1	6	4
Phosphorus	ppm	ASTM D5185m	270	246	244	249
Zinc	ppm		0	0	6	6
Sulfur	ppm	ASTM D5185m	11200	6261	6313	9929
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	12	13	18
Sodium	ppm	ASTM D5185m	/50	<1	2	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID DEGRAI			limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	0.39	0.41	0.71



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	NONE	▲ MODER
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 PROP	ERTIES	method				history2
Visc @ 40°C	cSt	ASTM D445	220	214	216	223

SAMPLE IMAGES

Color

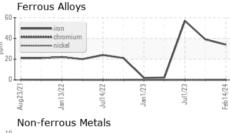
Bottom

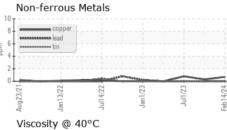


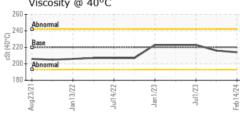


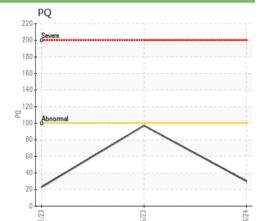


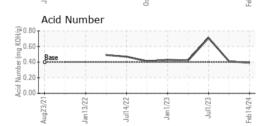














Certificate L2367

Laboratory Sample No. Lab Number : 06091096 Unique Number: 10883949

: PCA0101545

Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Feb 2024 : 16 Feb 2024 **Tested**

: 16 Feb 2024 - Wes Davis Diagnosed

SDI - Steel DynamicsInc. - Heartland

455 West Industrial Drive Terre Haute, IN

US 47802 Contact: BRAD ELLIS

brad.ellis@steeldynamics.com T:

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)

F: