

## **OIL ANALYSIS REPORT**

Sample Rating Trend



## NO UNIT PC0080489 Component

**Unknown Component** 

### PETRO CANADA ENDURATEX SYNTHETIC EP 220 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please provide more complete information on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the sample.

#### Fluid Condition

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

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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0080489		
Sample Date		Client Info		11 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)		4		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		<1		
Lead	ppm	ASTM D5185(m)		0		
Copper	ppm	ASTM D5185(m)		0		
Tin	ppm	ASTM D5185(m)		0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	33	32		
Barium	ppm	ASTM D5185(m)	5	0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	5	0		
Calcium	ppm	ASTM D5185(m)	5	1		
Phosphorus	ppm	ASTM D5185(m)	437	425		
Zinc	ppm	ASTM D5185(m)	5	1		
Sulfur	ppm	ASTM D5185(m)	5000	5437		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<1		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	1		
FLUID DEGRA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.7	0.79		



32 Abnom 30

()-28 ()-001) 26 24 Base

Abnorm 22 20 1/24

Abnorm 30

Abnom 22 20

240 230 

> 200 Abnorm 190 /24 Marl PQ 250

> Visco 250 Abnorm

Severe 200 150 Ы

Abnorm 100 50

Mar1 Visco 32

# **OIL ANALYSIS REPORT**

	Viscosity @ 100°C				1	
2 -	<b>-</b>	VISUAL		method	limit/base	current
0.	Abnormal	White Metal	scalar	Visual*	NONE	NONE
8.		Yellow Metal	scalar	Visual*	NONE	NONE
6 -	Base	Precipitate	scalar	Visual*	NONE	NONE
4.		Silt	scalar	Visual*	NONE	NONE
2.	Abnormal	Debris	scalar	Visual*	NONE	NONE
0.		Sand/Dirt	scalar	Visual*	NONE	NONE
	Mar11/24	Appearance	scalar	Visual*	NORML	NORML
	Mar	Odor	scalar	Visual*	NORML	NORML
	Viscosity @ 100°C	Emulsified Water	scalar	Visual*		NEG
2 -	· -	Free Water	scalar	Visual*		NEG
0.	Abnormal	FLUID PROPE	RTIES	method	limit/base	current
8.						
6.	Base	Visc @ 40°C	cSt	ASTM D7279(m)	223	220
4.		Visc @ 100°C	cSt	ASTM D7279(m)	26.39	26.0
2.	Abnormal	Viscosity Index (VI)	Scale	ASTM D2270*	151	150
0.		SAMPLE IMAG	iES	method	limit/base	current
	Marl 1/24 Marl 1/24					
	M a					
	Viscosity @ 40°C	Color				
0-	Abnomal					
0.	-					
0.	Base	Bottom				
0.	<b>0</b>	Dottom				
0.						
0.	Abnormal	GRAPHS				
0.		Ferrous Alloys				PQ
	Mar11/24	10 8 iron			22	Smiller
	Nu vu	sesses chromium			20	
	PQ	E 4 4			18	0-
0 -		2			16	0
0 -	Severe				4Z/1	0-
0.		Marl 1/24			-14 DI 1/24	1
0-	Abnormal	Non-ferrous Metal	s		10	
n		10 copper			8	0
		E 6			6	0
0.	24	4			4	0
	Mar11/24	2-				0
	a. a	74 to 0			/24	0
		Marl 1/24			Mar11/24	Mar11/24
		– Viscosity @ 40°C				≥ Acid Number
		260 Abnormal			(₽0.8	
		240			9.0	0.
		G2+0 € 220 Base Abnormal			<u>ا</u> لح اي 0.4	0 -
		<sup>හ</sup> 200 <b>_ Abnormal</b>			0.6 40,4 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	0
		180			0.0 Acid	٥۴
		Mar11/24			Mar11/24	Mar11/24
		Ŵ			W	W

PETRONOR INC 2920 RTE 111 EST AMOS, QC CA J9T 3A1 Contact: Gaston entretien@petronor.ca T: (819)732-5334 F:



Test Package : IND 2 (Additional Tests: KV100, TAN Man, VI) To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

: PC0080489

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Received

Diagnosed

Tested

: 12 Mar 2024

: 12 Mar 2024

: 13 Mar 2024 - Kevin Marson

Report Id: PROAMO [WCAMIS] 02621599 (Generated: 03/13/2024 11:06:48) Rev: 1

CALA

ISO 17025:2017

Laboratory

Sample No.

Lab Number : 02621599

Unique Number : 5746718

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1/24 Mar1.

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