

OIL ANALYSIS REPORT

Sample Rating Trend





Component Compressor Fluid

PETRO CANADA SENTRON LD 3000 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component.

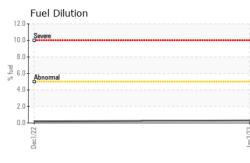
Fluid Condition

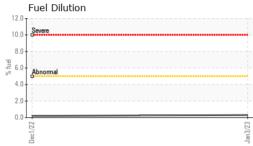
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

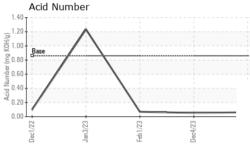
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0111963	PCA0111951	PCA0077667
Sample Date		Client Info		02 Jan 2024	04 Dec 2023	01 Feb 2023
Machine Age	hrs	Client Info		84864	84169	77338
Oil Age	hrs	Client Info		3095	2400	15236
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	8	6	7
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	0
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	1	0	11	1
Molybdenum	ppm	ASTM D5185m	2	0	<1	<1
Manganese	ppm	ASTM D5185m	1	0	<1	<1
Magnesium	ppm	ASTM D5185m	5	6	6	18
Calcium	ppm	ASTM D5185m	1220	31	29	107
Phosphorus	ppm	ASTM D5185m	298	96	95	79
Zinc	ppm	ASTM D5185m	350	0	0	0
Sulfur	ppm	ASTM D5185m	1995	485	599	447
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	<1
Sodium	ppm	ASTM D5185m		6	5	39
Potassium	ppm	ASTM D5185m	>20	1	2	1
Fuel	%	ASTM D3524				
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	0.061	0.053	0.069



OIL ANALYSIS REPORT







		VISUAL		method					
		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	NONE	-
		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE	-
			scalar	*Visual	NORML	NORML	NORML	NORM	
		Appearance Odor	scalar	*Visual	NORML	NORML	NORML	NORM	
		Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG	
		Free Water	scalar	*Visual	2011	NEG	NEG	NEG	
		FLUID PROP	PERTIES	method	limit/base	current	history1	histo	ory2
		Visc @ 40°C	cSt	ASTM D445	124.3	105	103	99.0	
		SAMPLE IMA	GES	method	limit/base	current	history1	histo	ory2
							no image	no ima	age
		Bottom					no image	no ima	age
		GRAPHS							
		Iron (ppm)			100	Lead (ppm)			
V		200 Severe	1		100	Severe	1		
		Abnormal		 	E 50	Abnormal			
Feb 1/23	Dec4/23								
ш.		Dec1/22 Jan3/23	Feb1/23	Dec4/23	Jan 2/24	Dec1/22 Jan3/23	Feb 1/23	Dec4/23	AC/Carry
		a i		ā	-5			Ó	-
						Chromium (pr			
		100	.,	I	30	0			
		Severe	1	I I I		Severe			
		100			²⁰ 10	Severe	,		
		Bevere Abnormal		23	10 10	Abnormal		23	24
		Severe	Feb1/23	Dec4/23	²⁰ 10	Severe	Feb1/23	Dec4/23	1/ 6/ C
		Long Copper (ppm)		Dec4/23	0 10 ppm	Abnomal D ZZ/133 Silicon (ppm)		Dec4/23	P Cr C I
		Log Copper (ppm)		Dec4/23	4727ee 10 10 10 100	Abnomal D ZZ/133 Silicon (ppm)		Dec4/23	BCC Currel
		Loopper (ppm)		Dec4/23	0 10 ppm	Abnormal 2010 20		Dec4/23	I C C curr
		Log Copper (ppm)	Feb1/23		420 udd 10 427 uer 100 udd 50 0 0	Abnormal October Silicon (ppm) Severe Abnormal October Abnormal	Feb1/23		
		Log Copper (ppm)	Feb1/23		420 udd 10 427 uer 100 udd 50 0 0	Abnormal October Silicon (ppm) Severe Abnormal October Abnormal	Feb1/23		
		boommal boommal czytase czytase czytase boommal czytase czy	Feb1/23	Dec4/23 Dec4/23	42/Zuref 42/Zuref 100 mdd 0 42/Zuref 0	Abnomal Silicon (ppm) Silicon (ppm)		Dec4/23 Dec4/23	
		100 Severe Abnomal Copper (ppm) 200 Ed 100 0 201 201 201 201 201 201 20	Feb1/23		42/Zuref 42/Zuref 100 mdd 0 42/Zuref 0	Abnormal CZU100 Silicon (ppm) Silicon (ppm) CZU200	Feb1/23		
		100 Severe Abnomal Copper (ppm) 200 Ed 100 0 201 201 201 201 201 201 20	Feb1/23		42/Zuref 42/Zuref 100 mdd 0 42/Zuref 0	Abnomal Silicon (ppm) Silicon (ppm)	Feb1/23		
		100 50 50 50 50 50 50 50 50 50	Feb1/23		42/Zuref 42/Zuref 100 mdd 0 42/Zuref 0	Abnormal CZU100 Silicon (ppm) Silicon (ppm) CZU200	Feb1/23		
		100 Severe 4 50 0 200 0 201 0	Feb1/23	Dec4/23	100 mber (ng KOH(g) 0 mber (ng	Abnormal California Silicon (ppm) Silicon (ppm) Acid Number	Feb1/23 Feb1/23	Dec4/23	5 C C ma
		100 Severe Abnomal Copper (ppm) 200 Ed 100 0 201 201 201 201 201 201 20	Feb1/23		42/2uer 42/2uer 100 mdd 0 42/2uer 0	Abnomal Silicon (ppm) Silicon (ppm)	Feb1/23		
	Laboratory	100 6 6 6 6 6 6 6 6 6 6 6 6 6	C - 501 Madi	son Ave., Ca	und 10 4272uer 100 4272uer 100 4272uer 100 100 100 100 100 100 100 10	Abnormal CZUJ29 Silicon (ppm) Silicon (ppm) Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal Abnormal CZU29 Pecifica Abnormal Ab	EZI(qay EZI(qay EZI(qay EZI(qay EZI(qay EZI(qay	Decyl53	GAP
	Sample No.	Copper (ppm)	C - 501 Madia Recieved	son Ave., Ca	100 Hold 10 Hold 10	Abnormal CZUJ29 Silicon (ppm) Silicon (ppm) Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal Abnormal CZU29 Pecifica Abnormal Ab	Feb1/23 Feb1/23 Feb1/23	- POPLAR (ESCENT F	GAP I
		100 Severe 6 50 6 0 100 Severe	C - 501 Madii Recieved Diagnos	EZ / H2390 EZ / H	und 10 4272uer 100 4272uer 100 4272uer 100 100 100 100 100 100 100 10	Abnormal CZUJ29 Silicon (ppm) Silicon (ppm) Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal Abnormal CZU29 Pecifica Abnormal Ab	EZI(qay EZI(qay EZI(qay EZI(qay EZI(qay EZI(qay	Decyl53	GAP I ROAI
	Sample No. Lab Numbe	100 Severe 6 50 0 200 100 Severe	C - 501 Madii Recieved Diagnos Diagnos	son Ave., Ca d : 10, ed : 12, tician : Dor	100 Hold 10 Hold 10	Abnormal CZUJ29 Silicon (ppm) Silicon (ppm) Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal Abnormal CZU29 Pecifica Abnormal Ab	EZI(qay EZI(qay EZI(qay EZI(qay EZI(qay EZI(qay	- POPLAR SCENT F GRUND US 2	GAP ROAI Y, V, 2461
	Sample No. Lab Numbe Unique Numb Test Packag s sample report	Copper (ppm) Copper (ppm) Co	C - 501 Madii Recieved Diagnos al Tests: Fu rvice at 1-8	son Ave., Ca d : 10, ed : 12, tician : Dor uelDilution) 300-237-1365	udd 10 4772 uef 100 4772 uef 100 100 100 100 100 100 100 10	Abnormal CZUJ29 Silicon (ppm) Silicon (ppm) Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal CZU29 Pecifica Abnormal Abnormal CZU29 Pecifica Abnormal Ab	EZIONAL EZIONAL EZIONAL EZIONAL EZIONAL EZIONAL EZIONAL EZIONAL EZIONAL EZIONAL	- POPLAR SCENT F GRUND US 2	ROAE Y, V/ 2461

ŝ