

OIL ANALYSIS REPORT

Sample Rating Trend





Component **Natural Gas Engine**

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 oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



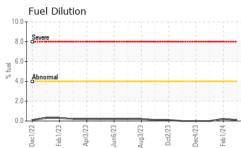


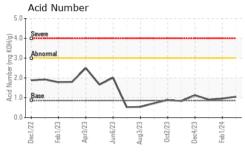
2012 Ex2023 Arc2023 Lug2023 Arc2023 0r2012 De2023 Ex2024

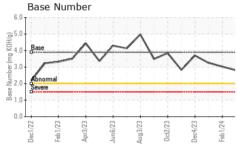
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112034	PCA0117159	PCA0103426
Sample Date		Client Info		04 Mar 2024	01 Feb 2024	02 Jan 2024
Machine Age	hrs	Client Info		101457	100689	99972
Oil Age	hrs	Client Info		6060	5292	4575
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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	2	4	5
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	2
Lead	ppm	ASTM D5185m	>30	2	2	<1
Copper	ppm	ASTM D5185m	>35	<1	2	1
Tin	ppm	ASTM D5185m	>4	<1	<1	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	5	0	0	0
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	2	<1	<1	1
Manganese	ppm	ASTM D5185m	1	<1	<1	0
Magnesium	ppm	ASTM D5185m	5	15	15	13
Calcium	ppm	ASTM D5185m	1220	1474	1477	1532
Phosphorus	ppm	ASTM D5185m	298	289	308	325
Zinc	ppm	ASTM D5185m	350	379	373	357
Sulfur	ppm	ASTM D5185m	1995	2546	2608	2774
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	5	6
Sodium	ppm	ASTM D5185m	>20	2	2	0
Potassium	ppm	ASTM D5185m	>20	2	3	3
Fuel	%	ASTM D3524	>4.0	0.1	0.2	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>15	5.2	5.2	5.2
Sulfation	Abs/.1mm	*ASTM D7415	>25	18.1	18.0	17.6
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>20	11.6	11.3	11.2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	1.05	0.96	0.91
Base Number (BN)	mg KOH/g	ASTM D2896	3.9	2.81	3.03	3.25

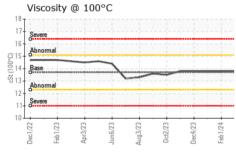


OIL ANALYSIS REPORT









	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	NONE
	Sand/Dirt		scalar	*Visual	NONE	NONE	NONE	NONE
Dec4/23	Appearance		scalar	*Visual	NORML	NORML	NORML	NORML
De	Odor		scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		scalar	*Visual	>0.1	NEG	NEG	NEG
	Free Water		scalar	*Visual		NEG	NEG	NEG
		FLUID PROPE	RTIES	method	limit/base	current	history1	history2
		Visc @ 100°C	cSt	ASTM D445	13.7	13.8	13.8	13.8
		GRAPHS						
~		Iron (ppm)				Lead (ppm)		
		100 Severe				Severe		
Dec4/23	Feb1/24	80 -				50 -		
Der	臣	Abnormal			und da	40 30 Abnormal		
		⁶ 40 -				20-		
		20-				10	· \	
		53 53 53 10 53 53 53 50 10	23-	23	24	23	23	23
-		Dec1/22 Feb1/23 Apr3/23	Aug3/23	0ct2/23 Dec4/23	Feb 1/24	Dec1/22 Feb1/23 Apr3/23	Jun6/23 Aug3/23	0ct2/23 Dec4/23 Feb1/24
\sim	-	Aluminum (ppm)				Chromium (p	(mag	
		²⁰					, p,	
		15 - Severe			-	6 - Severe		-
	+	E 10 - Abnormal			Ed.	Abnormal		
Dec4/23	Feb1/24							
	Li.					2		
			/23	23	/24	23	Z3 Z3	23
		Dec1/22 Feb1/23 Apr3/23 Jun6/23	Aug3/23	0ct2/23 Dec4/23	Feb 1/24	Dec1/22 Feb1/23 Apr3/23	Jun6/23 Aug3/23	0ct2/23 Dec4/23 Feb1/24
	Copper (ppm)					Silicon (ppm))	
1 1	1	80 Severe			20	00 Severe		
		60-			19	50		
		튭 40 - Abnormal			<u></u>	0 - Abnormal		
		20 -			5	50 -		
Dec4/23 -	Feb1/24 -	0				0		
Dec	-e-	Dec1/22 Feb1/23 Apr3/23	Aug3/23 -	0ct2/23 -	Feb1/24 -	Dec1/22 Feb1/23 -	Jun6/23 - Aug3/23 -	0ct2/23 - Dec4/23 - Feb1/24 -
		Apri Juni	Aug	Dec	Feb	Dec Feb	Juni	Dect Feb
		Viscosity @ 100°C				Base Numbe	r	
		Severe			(^B /H	.0		
		6 + 1			DY BL	.0 Base		
		Abnormal Base Abnormal			(B)HOX BW) Jack BW BW Jack BW BW BW BW BW BW BW BW BW BW BW BW BW B	.0		\sim
		12				0 Severe		
		10			0	.0 ++++-		
		Dec1/22 Feb1/23 Apr3/23	Aug3/23	0ct2/23 Dec4/23	Feb1/24	Dec1/22 Feb1/23 Apr3/23	Jun6/23 Aug3/23	0ct2/23 Dec4/23 Feb1/24
		Ap Jun	Au	De O	в Ц	Ap Fei	Ju Aui	Lei De
l aharr	atory	: WearCheck USA - 501	Madiaa		NC 07510	ENED		ING - WATKINS
Labora Sampl		: PCA0112034	Recei		Mar 2024			HOLLOW ROAD
Lab Nu	umber	: 06113703	Teste		2 Mar 2024 2 Mar 2024	· · · · ·		GRUNDY, VA
		: 10917200	Diagn		Mar 2024 - S	ean Felton		US 24614
Toet Da	orkano	· MOB 2 (Additional Te	ete: Fual	Dilution Por	contEucl)		Contact: 9	Service Manager

Contact: Service Manager

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) 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)

Certificate L2367

Submitted By: Josh Moore Page 2 of 2