

OIL ANALYSIS REPORT

Sample Rating Trend



2 (S/N GZJ00315) Component

Natural Gas Engine

Fluic

PETRO CANADA SENTRON CG 40 (145 GAL)

DIRT

DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		WC0699077	WC0699001	WC0699004
No corrective action is recommended at this time.	Sample Date		Client Info		06 Feb 2023	30 Jan 2023	24 Jan 2023
Resample at the next service interval to monitor. (Machine Age	hrs	Client Info		116357	116185	116042
Customer Sample Comment: Total oil added 47 gal	Oil Age	hrs	Client Info		291	119	954
)	Oil Changed		Client Info		N/A	N/A	N/A
Wear	Sample Status				ABNORMAL	NORMAL	ABNORMAL
All component wear rates are normal.			and the state	11.0011/10.000			history O
Contamination	CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel content negligible. Elemental level of silicon (Si) above normal.	Water		WC Method	-	NEG	NEG	NEG
Fluid Condition	WEAR METALS		method	limit/base	current	history1	history2
The BN result indicates that there is suitable	Iron	ppm	ASTM D5185m	>50	3	2	7
alkalinity remaining in the oil. The AN level is	Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
acceptable for this fluid. The condition of the oil is	Nickel	ppm	ASTM D5185m	>2	<1	<1	1
suitable for further service.	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>9	2	2	2
	Lead	ppm	ASTM D5185m	>30	1	<1	2
	Copper	ppm	ASTM D5185m	>35	1	<1	4
	Tin	ppm	ASTM D5185m	>4	3	1	8
	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	0	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	<1
	Magnesium	ppm	ASTM D5185m	9	15	12	16
	Calcium	ppm	ASTM D5185m	2712	2990	2769	3332
	Phosphorus	ppm	ASTM D5185m	292	288	267	335
	Zinc	ppm	ASTM D5185m	342	338	333	403
	Sulfur	ppm	ASTM D5185m	2575	3837	3095	4119
	CONTAMINANTS	5	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>+100	🔺 165	89	4 20
	Sodium	ppm	ASTM D5185m		<1	0	<1
	Potassium	ppm	ASTM D5185m	>20	0	1	0
	Fuel	%	ASTM D3524	>4.0	0.4	0.3	0.4
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.2	4.4	6.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	15.4	22.1
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.0	8.3	13.9
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.98	0.897	1.56	1.25





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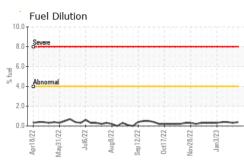
method

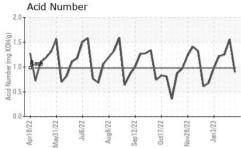
limit/base

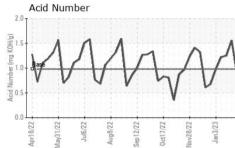
current

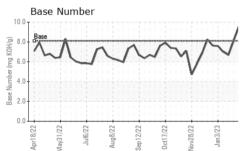
history1

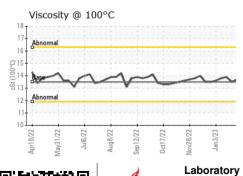
VISUAL











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	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
22	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Nov28/22 Jan3/23	Odor						
Z		scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG
A A	FLUID PROPERT		method	limit/base	current	history1	history2
AA	Visc @ 100°C	cSt	ASTM D445	13.5	13.7	13.5	13.9
VV	GRAPHS Iron (ppm)				Lead (ppm)		
	100 Transmore regard a solo		30000000000	60			
22 -	80 - Severe			50	0		
Nov28/22 Jan3/23	C0			40			
2	Abnormal			<u>특</u> 30			
				20			
	20						
		122	122	- (122	122
A A	Apr18/22 May31/22 Jul6/22 Aug8/22	Sep12/22	0ct17/22 Nov28/22 .Jan3/23	35	Apr18/22 - May31/22 - Jul6/22 -	Aug8/22 Sep12/22 Oct17/22	Nov28/22 Jan3/23
111	Aluminum (ppm)	55	~		Schromium (pp)		-
VV	²⁰ T		100000000000				
٧	15 - Severe				Severe		
ver lever ben				E d	Abnormal		
Nov28/22 - Jan3/23	E 10 - Abnormal			d			
Nov	5			~	2	٨	
		5	\sim				~
	Apr18/22 May31/22 Jul6/22 Aug8/22	Sep12/22	0ct17/22 Nov28/22 .Jan3/23		Apr18/22 - May31/22 - Jul6/22 -	Aug8/22 Sep12/22 Oct17/22	Nov28/22 Jan3/23
/	Api Ji, Aui	Sep	Nov	5		Au Sep Oct	von
MIN	Copper (ppm)				Silicon (ppm)		
V	80 Severe		100000000000000000000000000000000000000	500	The other states and stat	manana	00000000
	60			400	1 1	. 1	NA
	E 40 - Abnormal			E 300	1/1/1	ALL	111
	Second constrained a			200	11 .1/ 1	FH/h	1-11-
22	20-			100	Alfnormal	V V	V V
ov28/22 Jan3/23						N N N	3
N Y	Apr18/22 May31/22 Jul6/22 Aug8/22	Sep12/22	0ct17/22 Nov28/22 .1an3/23	2	Apr18/22 May31/22 Jul6/22	Aug8/22 Sep12/22 Oct17/22	Nov28/22 Jan3/23
	A M 1		Nov	i	A M	All	Nor
	Viscosity @ 100°C			10	Base Number		
	Abnormal		TROUGH ST		Base	The first of	
	16+			.6 KG	AN I	m	y A
		200		E 6.0	The first of the second		V
	via Abnormal	-		Manalitetti - qui 4.(a second second second		
		241 - 113 - 113		(b/HO) 8.0 (b/HO) 6.0 (b/HO) 800 (b/HO) 800	a least state of the second		
		22 -	22 - 22 -	0.0	22	22 - 22	22 - 23 - 23 -
lov28/22 - Jan3/23 -	Apr18/22 May31/22 Jul6/22 Aug8/22	Sep12/22	0ct17/22 Nov28/22 .1an3/23	2011/01	Apr18/22 May31/22 Jul6/22	Aug8/22 Sep12/22 Oct17/22	Nov28/22 Jan3/23
Nov28/22 Jan3/23	A Mi	5	N, N	500 1	A M	1 33 0	ž
Laboratory	: WearCheck USA - 501	I Madisor	n Ave Carv	. NC 27513		FINI FY	BIOENER
Sample No.	: WC0699077	Receiv) Feb 2023		74265 Bombing	-
	: 05764143	Tested		5 Feb 2023			oardman, (
Lab Number					have the stars	_	US 978
Lab Number Unique Number	: 10333751	Diagn	osed : 15	Feb 2023 - Jonat	nan Hester		05 370
Unique Number	: 10333751 : MOB 2 (Additional Te	•			nan Hester	Contact: B	

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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history2