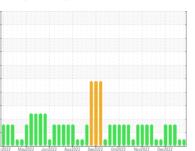


OIL ANALYSIS REPORT

Sample Rating Trend









PETRO CANADA SENTRON CG 40 (--- GAL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Total oil added 21 gal)

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

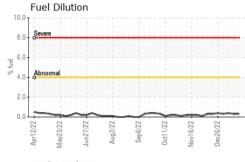
Fluid Condition

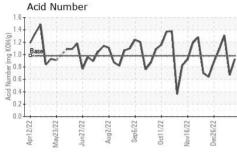
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

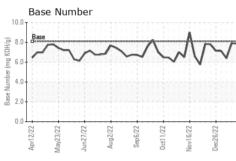
	•	r2022 May20	ZZ JunZUZZ AugZUZZ	Sepzuzz Uctzuzz Novzuzz	DBCZUZZ	
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0698999	WC0699005	WC0698996
Sample Date		Client Info		30 Jan 2023	24 Jan 2023	17 Jan 2023
Machine Age	hrs	Client Info		111882	111738	111605
Oil Age	hrs	Client Info		240	96	998
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMA
CONTAMINATION	N .	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>45	4	3	17
Chromium	ppm	ASTM D5185m	>2	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	1	4
Lead	ppm	ASTM D5185m	>5	1	2	5
Copper	ppm	ASTM D5185m	>14	1	<1	4
Tin	ppm	ASTM D5185m	>13	2	2	11
/anadium	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	2
Manganese	ppm	ASTM D5185m	1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	9	12	15	19
	ppiii	AO IIVI DO IOOIII				
Calcium	ppm		2712	2760	3042	3745
Calcium Phosphorus			2712 292	2760 263	3042 307	3745 377
Phosphorus	ppm	ASTM D5185m				
	ppm	ASTM D5185m ASTM D5185m	292	263	307	377
Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	292 342	263 332	307 364	377 461
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	292 342 2575 limit/base	263 332 3406	307 364 3867	377 461 5245
Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	292 342 2575 limit/base	263 332 3406 current	307 364 3867 history1	377 461 5245 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	292 342 2575 limit/base	263 332 3406 current	307 364 3867 history1	377 461 5245 history2 ▲ 564
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	292 342 2575 limit/base >200	263 332 3406 current 162 0	307 364 3867 history1 81 <1	377 461 5245 history2 ▲ 564
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	292 342 2575 limit/base >200	263 332 3406 current 162 0	307 364 3867 history1 81 <1 <1	377 461 5245 history2 564 2 <1 0.4
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	292 342 2575 limit/base >200 >20 >4.0	263 332 3406 current 162 0 1	307 364 3867 history1 81 <1 <1 <1	377 461 5245 history2 ▲ 564 2 <1
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	292 342 2575 limit/base >200 >20 >4.0	263 332 3406 current 162 0 1 0.3	307 364 3867 history1 81 <1 <1 0.3	377 461 5245 history2 564 2 <1 0.4 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	292 342 2575 limit/base >200 >4.0 limit/base	263 332 3406 current 162 0 1 0.3 current	307 364 3867 history1 81 <1 <1 0.3 history1	377 461 5245 history2 ▲ 564 2 <1 0.4 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844	292 342 2575 limit/base >200 >20 >4.0 limit/base >20	263 332 3406 current 162 0 1 0.3 current 0.1 4.3	307 364 3867 history1 81 <1 <1 0.3 history1 0 3.9	377 461 5245 history2 ▲ 564 2 <1 0.4 history2 0.1 5.7 21.5
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 Method *ASTM D7844 *ASTM D7624 *ASTM D76145	292 342 2575 limit/base >200 >4.0 limit/base >20 >4.3	263 332 3406 current 162 0 1 0.3 current 0.1 4.3 15.7	307 364 3867 history1 81 <1 <1 0.3 history1 0 3.9 14.6	377 461 5245 history2 ▲ 564 2 <1 0.4 history2 0.1 5.7 21.5
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7615 method	292 342 2575 limit/base >200 >4.0 limit/base >20 >4.0 limit/base	263 332 3406 current 162 0 1 0.3 current 0.1 4.3 15.7 current	307 364 3867 history1 81 <1 <1 <1 0.3 history1 0 3.9 14.6 history1	377 461 5245 history2 564 2 <1 0.4 history2 0.1 5.7 21.5 history2

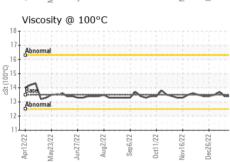


OIL ANALYSIS REPORT





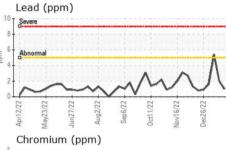


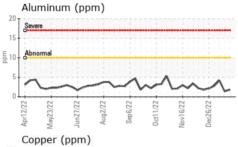


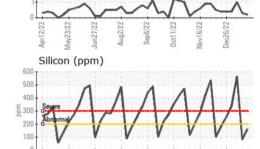
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

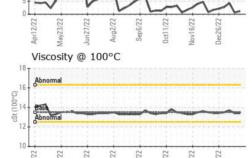
FLUID PROPER	IIIES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	13.5	13.4	13.4	13.7

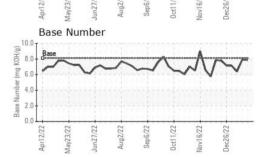
0 - Severe						*****		
Abnor	mal							
0								
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Apr12/22	May23/22	Jun27/22	Aug2/23	Sep6/22	0ct11/23	Nov16/22	Jec26/22	
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Laboratory Sample No. Lab Number : 05760144 Unique Number : 10324751

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: WC0698999

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed

: 06 Feb 2023 : 08 Feb 2023

: 08 Feb 2023 - Jonathan Hester

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: Blain Middleton bmiddleton@archaea.energy T: (541)481-3232

* - 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)

Report Id: FINLEX [WUSCAR] 05760144 (Generated: 03/06/2024 16:50:39) Rev: 1

Contact/Location: Blain Middleton - FINLEX

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