

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

9 Component Natural Gas Engine 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

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

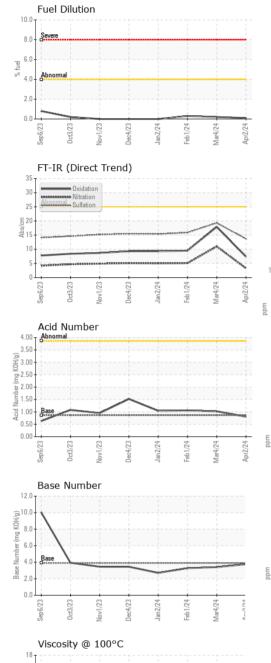
Fluid Condition

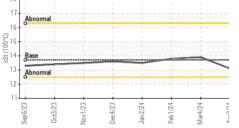
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0117153	PCA0117184	PCA0117179
Sample Date		Client Info		02 Apr 2024	04 Mar 2024	01 Feb 2024
Machine Age	hrs	Client Info		138712	138052	137284
Oil Age	hrs	Client Info		306	5305	4537
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 METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3	<1	7
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	1	1
Lead	ppm	ASTM D5185m	>30	2	0	3
Copper	ppm	ASTM D5185m	>35	12	0	<1
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	1	<1	0	0
Molybdenum	ppm	ASTM D5185m	2	2	<1	0
Manganese	ppm	ASTM D5185m	1	1	<1	<1
	ppm					
Magnesium	ppm	ASTM D5185m	5	8	7	11
-		ASTM D5185m ASTM D5185m	5 1220	8 1254		
Magnesium	ppm			-	7	11
Magnesium Calcium	ppm ppm	ASTM D5185m	1220	1254	7 1270	11 1330
Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m	1220 298	1254 289	7 1270 277	11 1330 308
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1220 298 350	1254 289 335	7 1270 277 348	11 1330 308 369
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1220 298 350 1995 limit/base	1254 289 335 2574	7 1270 277 348 2050	11 1330 308 369 2404
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1220 298 350 1995 limit/base	1254 289 335 2574 current	7 1270 277 348 2050 history1	11 1330 308 369 2404 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	1220 298 350 1995 limit/base	1254 289 335 2574 current 11	7 1270 277 348 2050 history1 1	11 1330 308 369 2404 history2 2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1220 298 350 1995 limit/base >+100	1254 289 335 2574 current 11 0	7 1270 277 348 2050 history1 1 2	11 1330 308 369 2404 history2 2 2 2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1220 298 350 1995 limit/base >+100 >20	1254 289 335 2574 current 11 0 3	7 1270 277 348 2050 history1 1 2 <1	11 1330 308 369 2404 history2 2 2 2 1
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	1220 298 350 1995 limit/base >+100 >20 >4.0	1254 289 335 2574 current 11 0 3 0.1	7 1270 277 348 2050 history1 1 2 <1 0.2	11 1330 308 369 2404 history2 2 2 2 1 0.3
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm TS ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	1220 298 350 1995 <i>limit/base</i> >+100 >20 >4.0	1254 289 335 2574 current 11 0 3 0.1 current	7 1270 277 348 2050 history1 1 2 <1 0.2 history1	11 1330 308 369 2404 history2 2 2 2 1 0.3 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm TS ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7842	1220 298 350 1995 <i>limit/base</i> >+100 >20 >4.0	1254 289 335 2574 current 11 0 3 0.1 current 0	7 1270 277 348 2050 history1 1 2 <1 0.2 history1 0	11 1330 308 369 2404 history2 2 2 2 1 0.3 history2 0
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Solicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5842 ASTM D3524	1220 298 350 1995 <i>limit/base</i> >+100 >20 >4.0 <i>limit/base</i>	1254 289 335 2574 current 11 0 3 0.1 current 0 3.3	7 1270 277 348 2050 history1 1 2 <1 0.2 history1 0 11.0	11 1330 308 369 2404 history2 2 2 2 2 1 0.3 history2 0 5.1
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRAC	ppm ppm ppm ppm ppm ppm ppm ppm % % Abs/cm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 •ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D7415	1220 298 350 1995 Imit/base >20 >4.0 Imit/base >20 >30 Imit/base	1254 289 335 2574 current 11 0 3 0.1 current 0 3.3 13.7 current	7 1270 277 348 2050 history1 1 2 <1 0.2 history1 0 11.0 19.3 history1	11 1330 308 369 2404 2 2 2 2 2 1 0.3 history2 0 5.1 15.9 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRAM	ppm ppm ppm ppm ppm ppm ppm ppm % % Abs/1mm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7614 *ASTM D7415	1220 298 350 1995 limit/base >+100 >20 >4.0 limit/base >20 >30 limit/base	1254 289 335 2574 <i>current</i> 11 0 3 0.1 <i>current</i> 0 3.3 13.7 <i>current</i> 7.4	7 1270 277 348 2050 history1 1 2 <1 0.2 history1 0 11.0 19.3 history1 17.9	11 1330 308 369 2404 2 2 2 2 1 0.3 history2 0 5.1 15.9 history2 9.5
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm ppm ppm ppm ppm ppm ppm ppm % % Abs/cm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 •ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D7415	1220 298 350 1995 Imit/base >20 >4.0 Imit/base >20 >30 Imit/base	1254 289 335 2574 current 11 0 3 0.1 current 0 3.3 13.7 current	7 1270 277 348 2050 history1 1 2 <1 0.2 history1 0 11.0 19.3 history1	11 1330 308 369 2404 2 2 2 2 2 1 0.3 history2 0 5.1 15.9 history2



OIL ANALYSIS REPORT





Certificate L2367

		VISUAL		method	limit/base	current	his	tory1		history	/2
		White Metal	scalar	*Visual	NONE	LIGHT	NON	IE	Ν	IONE	
		Yellow Metal	scalar	*Visual	NONE	NONE	NON	IE	Ν	IONE	
		Precipitate	scalar	*Visual	NONE	NONE	NON	IE	Ν	IONE	
		Silt	scalar	*Visual	NONE	NONE	NON	IE	Ν	IONE	
		Debris	scalar	*Visual	NONE	LIGHT	NON	IE	Ν	IONE	
		Sand/Dirt	scalar	*Visual	NONE	NONE	NON	IE	Ν	IONE	
Mar4/24	Apr2/24 -	Appearance	scalar	*Visual	NORML	NORML	NOF	RML	Ν	IORML	
Mai	Api	Odor	scalar	*Visual	NORML	NORML	NOF	RML	Ν	IORML	-
		Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	ì	N	IEG	
		Free Water	scalar	*Visual		NEG	NEG	ì	Ν	IEG	
		FLUID PROPE		method	limit/base	current	his	tory1		history	/2
		Visc @ 100°C	cSt	ASTM D445	13.7	13.1	13.9		1	3.8	
	1	GRAPHS									
Contract of the second s		Iron (ppm)				Lead (ppm)					
24	24	Severe				50 -					
Mar4/24	Apr2/24	60				40 Abaamal					
		Abnormal 40				30 - Abnormal		1			
		20 -				10					
			13	24	24		13	- 14	4		4
		Sep6/23 0ct3/23 Nov1/23	Jan2/24	Feb1/24 Mar4/24	Apr2/24	Sep6/23 0ct3/23	Nov1/23	Jan2/24	Feb 1/24	Mar4/24	Apr2/24
		Aluminum (ppm)				Chromium	(ppm)				
	-	20				8					
		15 - Severe				6 - Abnormal					
Mar4/24 -	Apr2/24 -	E 10 - Abnormal				4 - Abnormal		1			
Mar	Apr	5 -				2 -					
			-						-		-
		Sep6/23 0ct3/23 Nov1/23	Jan2/24 -	Feb1/24 Mar4/24	Apr2/24 -	Sep6/23 0ct3/23	Nov1/23	Jan2/24	Feb 1/24	Mar4/24	Apr2/24
		Copper (ppm)	2			Silicon (ppn	_	-			-
		80 Severe				00 - Severe					
		60 -				50-					
		a 40 - Abnormal			<u>a</u> 1	00 - Abnormal		I	1		
		20-				50					
Mar4/24	VGG	0				0					_
2	×.	Sep6/23 0ct3/23 Nov1/23	Jan2/24	Feb1/24 Mar4/24	Apr2/24	Sep 6/23 0ct3/23	Nov1/23	Jan2/24	Feb1/24	Mar4/24	Apr2/24
		Viscosity @ 100°C		A M	~	∞		ŗ	LL.	2	4
		¹⁸ T				.0 , ,					
		16 - Abnormal			Base Number (mg KOH/g) 8 9 9 8						
		Abnormal			5 (j) (j)						
THE R. LANSING MICH.		ත් Abnormal			quinn 4	.0 Base					
					ase 2	2.0					
		Sep 6/23 + 0 0ct3/23 + 0	Uec4/23 + Jan2/24 +	Feb1/24 + Mar4/24 +	Apr2/24 +	Sep 6/23 + 0.0	Nov1/23 + Dec4/23 +	Jan2/24 -	Feb1/24 -	4/24 -	Apr2/24
Mar4/24	<i>الد وس</i> ر	Sep6/23 0ct3/23 Nov1/23	Jan2	Feb1/24 Mar4/24	Apri	Sep 6/23 0ct3/23	Nov1/23 Dec4/23	Janź	Feb1	Mar4/24	Aprá
. ≥	<										
Labor	atory	: WearCheck USA - 50	1 Madiso	on Ave., Cary	, NC 27513	ENE	RVEST O	PERA	TING	- HAYS	SI A
Samp	le No.	: PCA0117153	Rece	ived :11	1 Apr 2024		124	42 WE		ND RC	
Lab N		: 06146041	Teste		6 Apr 2024					HAYSI,	

Diagnosed

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

: 16 Apr 2024 - Jonathan Hester



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: ENEHAYA [WUSCAR] 06146041 (Generated: 04/16/2024 08:53:26) Rev: 1

Unique Number : 10976119

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.

F: Contact/Location: CHARLES GREGORY - ENEHAYA

Contact: CHARLES GREGORY

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