

OIL ANALYSIS REPORT

Sample Rating Trend



K

Ramsey Ridge 3 Natural Gas Engine Fluid

PETRO CANADA SENTRON LD 3000 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Machine Id

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		PCA0117097	PCA0068092	PCA0068096			
Sample Date		Client Info		09 Jul 2024	07 Apr 2022	08 Mar 2022			
Machine Age	hrs	Client Info		136745	140778	140057			
Oil Age	hrs	Client Info		1293	0	0			
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd			
Sample Status	Sample Status			NORMAL	NORMAL	NORMAL			
CONTAMINATION		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	<1	5	6			
Chromium	ppm	ASTM D5185m	>4	0	0	<1			
Nickel	ppm	ASTM D5185m	>2	0	0	0			
Titanium	ppm	ASTM D5185m		0	0	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>9	<1	2	3			
Lead	ppm	ASTM D5185m	>30	0	<1	2			
Copper	ppm	ASTM D5185m	>35	<1	<1	<1			
Tin	ppm	ASTM D5185m	>4	0	<1	<1			
Antimony	ppm	ASTM D5185m							
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	2	<1			
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	5	5	9	11			
Calcium	ppm	ASTM D5185m	1220	1315	1509	1612			
Phosphorus	ppm	ASTM D5185m	298	280	346	357			
Zinc	ppm	ASTM D5185m	350	333	451	454			
Sulfur	ppm	ASTM D5185m	1995	2668	2232	2404			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>+100	1	2	2			
Sodium	ppm	ASTM D5185m	>20	2	0	0			
Potassium	ppm	ASTM D5185m	>20	0	2	2			
Fuel	%	ASTM D3524	>4.0	0.0	0.7	0.3			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844		0	0.1	0.1			
Nitration	Abs/cm	*ASTM D7624	>15	3.3	6.6	6.1			
Sulfation	Abs/.1mm	*ASTM D7415	>25	13.8	20.0	18.6			
FLUID DEGRA	DATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>20	7.3	15.6	14.2			
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	0.36	1.42	1.21			
Base Number (BN)	mg KOH/g	ASTM D2896	3.9	3.64	3.50	3.19			
1:05:53) Rev: 1	0 - 0				Submitted By: ALEX MULLINS				



OIL ANALYSIS REPORT

scalar

scalar

scalar

scalar

scalar

scalar

scalar

scalar

cSt

eb3/22 eb15/22

ah15/77

: 18 Jul 2024 - Sean Felton

*Visual

*Visual

*Visual

*Visual

*Visual

*Visual

*Visual

*Visual

ASTM D445

ar8/77

scalar *Visual

scalar *Visual

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

>0.1

13.7

VISUAL

White Metal

Yellow Metal

Precipitate

Silt

Debris

Odor

Sand/Dirt

Appearance

Free Water

Visc @ 100°C

GRAPHS

Iron (ppm)

100

80

60 Abn

40

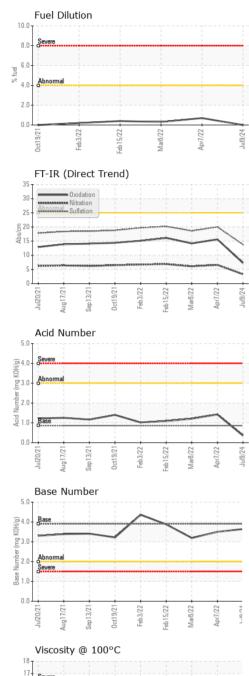
20

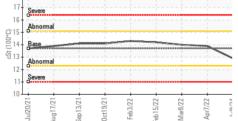
Emulsified Water

FLUID PROPERTIES

ep 13/2

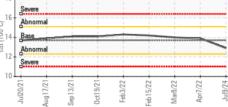
Aluminum (ppm)

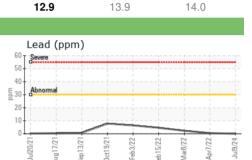




			Ee ^{b1}	Laboratory Sample No. Lab Number Unique Number		: PC : <mark>06</mark>	A01	heck USA 17097 81			Mad Rec Tes		Ave., d	Cary, : 16 : 17	Jul 202 Jul 202	24	
Sep13/21	0ct19/21	Feb3/22 -	-eb15/22 +	Mar8/22	Apr7/22	Vera	10	Sever - + 120/21n	Aug17/21	Sep13/21	0ct19/21+	Feb3/22	-eb 15/22	Mar8/22 +	Apr7/22	Jul9/24	Base 1.1 8 0.1
					~		CSt (100°C)	Abno								7	(B/HOX Buse Number (mg KOH/g))
		1 1 1 1 1					18-	Viso		@ 10	00°C	1	I	1	1		(B/H
@ 10	0ct19/21	Feb3/22	Feb15/22	Mar8/22	Apr7/22	N CL D11	0-	Jul20/21	Aug17/21.	Sep13/21.	0ct19/21	Feb3/22	Feb15/22	Mar8/22	Apr7/22 -	Jul9/24	

20 15 E 10 Aug17/21 en 13/7 Copper (ppm) 80 60 E 40 Ab 20 0ct19/21 eb3/22 Sep 13/2 ual Viscosity @ 100°C





NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

NONE

NONE

NONE

NONE

NONE

NONE

NORML

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NONE

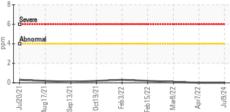
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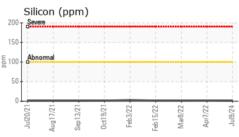
NORML

NEG

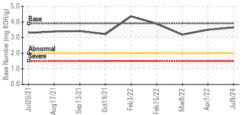
NEG

Chromium (ppm)





Base Number



ENERVEST OPERATING - RAMSEY RIDGE 2368 RAMSEY RIDGE CLINCHCO, VA US 24226 Contact: Service Manager

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) Certificate 12367 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)

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