

OIL ANALYSIS REPORT



^{Machine Id} **2 (S/N GZJ00315)**

Natural Gas Engine

PETRO CANADA SEN







DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. No other corrective action is recommended at this time. (Customer Sample Comment: Total oil added 47 gal)

Wear

All component wear rates are normal.

Contamination

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

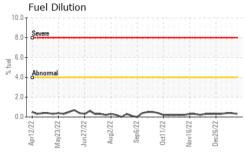
Fluid Condition

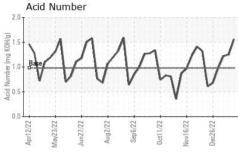
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

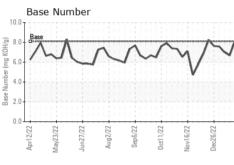
RON CG 40 (145	GAL)	r2022 May20	22 Jun2022 Aug2022	Sep2022 Oct2022 Nov2022	Des2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0699001	WC0699004	WC0698997
Sample Date		Client Info		30 Jan 2023	24 Jan 2023	17 Jan 2023
Machine Age	hrs	Client Info		116185	116042	115880
Oil Age	hrs	Client Info		119	954	792
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	2	7	6
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	3
_ead	ppm	ASTM D5185m	>30	<1	2	2
Copper	ppm	ASTM D5185m	>35	<1	4	4
Tin	ppm	ASTM D5185m	>4	1	8	7
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	12	16	18
Calcium	ppm	ASTM D5185m	2712	2769	3332	3412
Phosphorus	ppm	ASTM D5185m	292	267	335	348
Zinc	ppm	ASTM D5185m	342	333	403	419
Sulfur	ppm	ASTM D5185m	2575	3095	4119	4690
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	89	▲ 420	4 03
Sodium	ppm	ASTM D5185m		0	<1	2
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Fuel	%	ASTM D3524	>4.0	0.3	0.4	0.4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Aba/am	*ASTM D7624	>20	4.4	6.1	5.8
Nitration	Abs/cm					
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	15.4	22.1	21.3
	Abs/.1mm		>30 limit/base	15.4 current	22.1 history1	21.3 history2
Sulfation FLUID DEGRADA	Abs/.1mm	*ASTM D7415				
Sulfation	Abs/.1mm	*ASTM D7415 method	limit/base	current	history1	history2

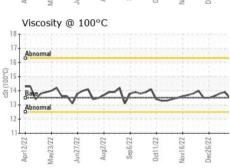


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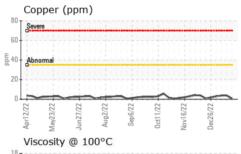


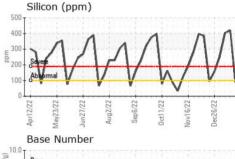


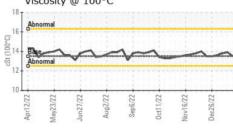
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

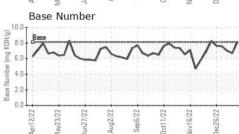
FLUID PROPER	TIES	method				history2
Visc @ 100°C	cSt	ASTM D445	13.5	13.5	13.9	13.8

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GRAPHS	
Iron (ppm)	Lead (ppm)
100 T Severe	60 Severe
	40
Abnomal 40	Abnormal
20	20 +
Apr12/22 May23/22 Jun27/22 Sep6/22 Oct11/22 Dec26/22	Apr12/22 May23/22 Jun27/22 Aug2/22 Sep6/22
Aluminum (ppm)	Chromium (ppm)
20 7 2000 2000 2000 2000 2000 2000 2000	813222222222222222222222222222
15 - Severe	6 - Severe
E 10 - Abnormal	Abnormal
5-1	2
~~~~~	1~~~~
Apr12/72 - Jun27/72 - Jun27/72 - Sep6/72 - Sep6/72 - Oct11/72 - Dec26/72 -	Apri 2/22 - Ilay 23/22 - Jun 27/22 - Aug 2/22 - Sep 6/22 - Oct 11/22 -
Apr12/22 May23/22 Jun27/22 Aug2/22 Sep6/22 Nov16/22 Dec26/22	Apri 2/22 May 23/22 Jun 27/22 Aug 2/22 Sep 6/22













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0699001 Lab Number : 05760143 Unique Number : 10324750

Received **Tested** Diagnosed

: 06 Feb 2023 : 08 Feb 2023

: 08 Feb 2023 - Wes Davis

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)

**FINLEY BIOENERGY** 

74265 Bombing Range Road Boardman, OR US 97818

Contact: Blain Middleton bmiddleton@archaea.energy

T: (541)481-3232 F: