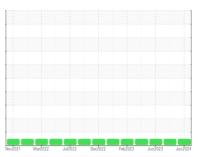


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

946015-260296

Natural Gas Engine

PETRO CANADA 15W40 (--- GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

## **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

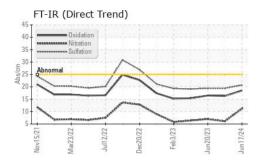
		Nov2021	Mar2022 Jul2022	Dec2022 Feb2023 Jun2023	Jun2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121755	GFL0092129	GFL0084734
Sample Date		Client Info		17 Jun 2024	29 Dec 2023	20 Jun 2023
Machine Age	hrs	Client Info		47607	179371	152196
Oil Age	hrs	Client Info		600	25645	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	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	33	4	9
Chromium	ppm	ASTM D5185m		<1	0	<1
Nickel	ppm	ASTM D5185m	>2	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		3	1	2
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>35	3	2	1
Tin	ppm	ASTM D5185m	>4	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		17	44	45
Barium	ppm	ASTM D5185m		4	3	0
Molybdenum	ppm	ASTM D5185m		50	43	48
Manganese	ppm	ASTM D5185m		6	2	<1
Magnesium	ppm	ASTM D5185m		840	770	604
Calcium	ppm	ASTM D5185m		1395	1168	1470
Phosphorus	ppm	ASTM D5185m		802	758	766
Zinc	ppm	ASTM D5185m		999	899	931
Sulfur	ppm	ASTM D5185m		2849	2301	2957
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	26	9	19
Sodium	ppm	ASTM D5185m		4	3	3
Potassium	ppm	ASTM D5185m	>20	5	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.2	6.1	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	19.4	19.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	16.3	16.5
Doos Number (DNI)		ACTM DOOG		6.0	0.0	0.4

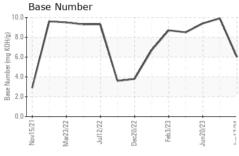
6.0

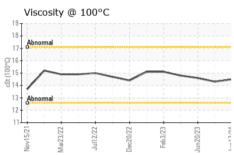
Base Number (BN) mg KOH/g ASTM D2896



# **OIL ANALYSIS REPORT**



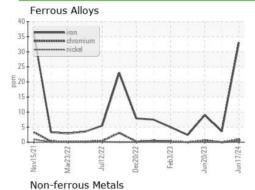


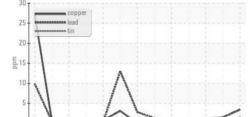


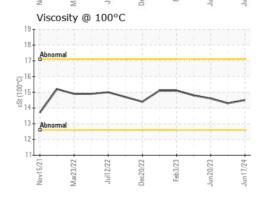
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

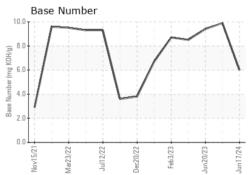
FLUID PROPE	ERITES	method	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445		14.5	14.3	14.6

# **GRAPHS**













Certificate 12367

Laboratory Sample No.

: GFL0121755 Lab Number : 06216735 Unique Number : 11089599 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 **Tested** : 24 Jun 2024

Diagnosed : 24 Jun 2024 - Sean Felton

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX

US 77083 Contact: Apolinar Zacarias pzacariascano@gflenv.com

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)

T:

F: