

# **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method

### Sample Rating Trend

# NORMAL

# 



Component Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (28 QTS)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

**10499C AUTOCAR ACX** 

#### Wear

Machine Id

All component wear rates are normal.

#### Contamination

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 condition of the oil is suitable for further service.

SAMPLE INFORI		method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		GFL0094657	GFL0094690	GFL0056668
Sample Date		Client Info		28 Feb 2024	02 Oct 2023	10 Jan 2023
Machine Age	hrs	Client Info		10205	9529	8122
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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	34	42	7
Chromium	ppm	ASTM D5185m	>4	2	2	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	3	0
Lead	ppm	ASTM D5185m	>30	4	<1	0
Copper	ppm	ASTM D5185m	>35	15	17	0
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	10	19	50
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	54	58	49
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m	560	594	667	505
Calcium	ppm	ASTM D5185m	1510	1612	1826	1493
Phosphorus	ppm	ASTM D5185m	780	731	854	748
Zinc	ppm	ASTM D5185m		1015	1087	888
Sulfur	ppm	ASTM D5185m	2040	2172	2370	2152
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	8	17	8
Sodium	ppm	ASTM D5185m		9	12	3
Potassium	ppm	ASTM D5185m	>20	2	4	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.5	10.0	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	20.3	18.6
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	17.8	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.8	6.6	9.0



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Mav26/15 Mav23/11

# **OIL ANALYSIS REPORT**

scalar

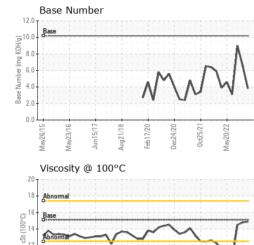
\*Visual

scalar \*Visual

VISUAL

White Metal

Yellow Metal



\ug21/18 Feb17/20 Dec24/20

	renow wetai	scalar visual	NONE	NONE	NONE	NONE
DI	Precipitate	scalar *Visual	NONE	NONE	NONE	NONE
	Silt	scalar *Visual	NONE	NONE	NONE	NONE
	Debris	scalar *Visual	NONE	NONE	LIGHT	NONE
	Sand/Dirt	scalar *Visual	NONE	NONE	NONE	NONE
721-	Appearance	scalar *Visual	NORML	NORML	NORML	NORML
0ct25/21 May20/22	Odor	scalar *Visual	NORML	NORML	NORML	NORML
2						
	Emulsified Water	scalar *Visual	>0.1	NEG	NEG	NEG
	Free Water	scalar *Visual		NEG	NEG	NEG
	FLUID PROPE	RTIES method	limit/base	current	history1	history2
$\sim c$	Visc @ 100°C	cSt ASTM D44	5 15.1	14.9	14.8	14.5
21	GRAPHS					
N	Ferrous Alloys					
····	45 40 imp	nopeatpartent	11010			
0ct25/21 May20/22	40 - Iron 35 - Iron nickel		Δ			
May	30 -		i i i i i i i i i i i i i i i i i i i			
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	15	AmA				
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	5	No. of Concession, Name of Street, or other Division of Street, or other D	manda			
	6/15 3/16 5/17	Feb17/20 - Dec24/20 - 0ct25/21 -	0/22			
	May26/15 May23/16 Jun15/17 Aug21/18	Feb1 Dec2 Oct2	May20/22			
	Non-ferrous Metal	S				
	<sup>70</sup> T					
	60 - copper lead					
	50					
	= 40					
	80 30					
	20					
	10-	NV	T			
			de			
	8/15 8/16 8/17	1/20 - 4/20 -	0/22			
	May26/15 May23/16 Jun15/17 Aug21/18	Feb17/20 Dec24/20 0ct25/21	May20/22			
	Viscosity @ 100°C		-	D. N.		
	19 <mark>7</mark>		12.0	Base Number		
	18 17		10.0	Base		
	16-					
	©15 - Base		(b)HOX Bull a contract of the second			Λ
	015 0014 53 13 Abnormal	M	ja 6.0-			NI
	Abnormal	V L	4.0-		M	N WI
	11		Base		IN V	
	10-		2.0-			
	9 2 9 2 9	20	-0.0	17 - E		21-
	May26/15 May23/16 Jun15/17 Aug21/18	Feb17/20 Dec24/20 0ct25/21	May20/22	May26/15 May23/16 Jun15/17	Aug21/18 Feb17/20 Dec24/20	0ct25/21 May20/22
	Ma Ma Au	ŭ O	W	Ma Ma	AL Fe	G Mã
Laboratory	: WearCheck USA - 50 <sup>-</sup>	1 Madison Ave Ca	ry, NC 27513	GFL Envi	ronmental - 001	- Raleigh(CNG)
Sample No.	: GFL0094657		01 Mar 2024			Sonquest Drive
Lab Number	: 06105843	Tested :	02 Mar 2024			Garner, NC
Unique Number	: 10909340	Diagnosed	02 Mar 2024 - We	es Davis	<b>A</b>	US 27529
Loot Dookers						Troig Johnson

NONE

NONE

NONE

NONE



Unique Number : 10909340 : 02 Mar 2024 - Wes Davis Diagnosed Test Package : FLEET Contact: Craig Johnson Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. craig.johnson@gflenv.com \* - 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)

Submitted By: Craig Johnson

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T: (919)662-7100

F: (919)662-7130

NONE

NONE

NONE

NONE