

# **OIL ANALYSIS REPORT**

Sample Rating Trend



## Machine Id 932029

Component Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

There is no indication of any contamination in the oil.

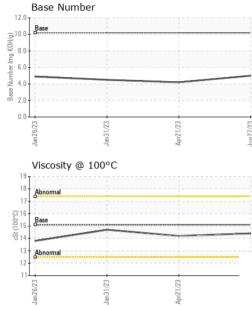
#### Fluid Condition

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

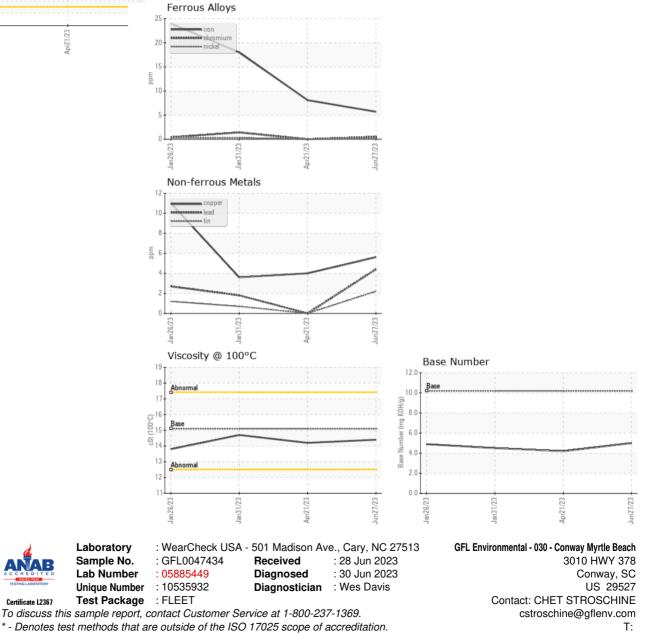
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0047434	GFL0070778	GFL0068509
Sample Date		Client Info		27 Jun 2023	21 Apr 2023	31 Jan 2023
Machine Age	mls	Client Info		26327	21030	21029
Oil Age	mls	Client Info		600	600	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	6	8	18
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	6	2	6
Lead	ppm	ASTM D5185m	>30	4	0	2
Copper	ppm	ASTM D5185m	>35	6	4	4
Tin	ppm	ASTM D5185m	>4	2	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	50	12	6	10
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	53	50	49
Manganese	ppm	ASTM D5185m	0	2	1	1
Magnesium	ppm	ASTM D5185m	560	580	558	534
Calcium	ppm	ASTM D5185m	1510	1653	1542	1480
Phosphorus	ppm	ASTM D5185m	780	704	642	658
Zinc	ppm	ASTM D5185m	870	943	953	918
Sulfur	ppm	ASTM D5185m	2040	2769	2508	2303
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>+100	10	20	7
Sodium	ppm	ASTM D5185m		7	8	8
Potassium	ppm	ASTM D5185m	>20	2	0	13
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.0	10.7	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	21.2	23.8
FLUID DEGRAD	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	18.3	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.0	4.2	4.5



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VISUAL		method	limit/base	current	history 1	history 2
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 PROPE	RTIES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.2	14.7
GRAPHS						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: CHET STROSCHINE

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