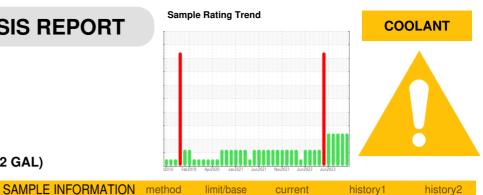


## **OIL ANALYSIS REPORT**



current

history1

## Machine Id Component

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (12 GAL)

### DIAGNOSIS

#### Recommendation

We advise that you check for possible coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

Sodium and/or potassium levels are high.

#### Fluid Condition

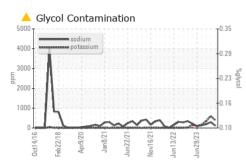
The BN result indicates that there is suitable alkalinity remaining in the oil.

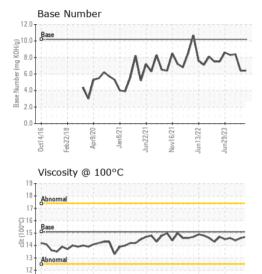
		mounou		00.110111	motory	motory
Sample Number		Client Info		GFL0098153	GFL0098122	GFL0079608
Sample Date		Client Info		13 Feb 2024	04 Dec 2023	08 Aug 2023
Machine Age	hrs	Client Info		10732	10732	10732
Oil Age	hrs	Client Info		501	582	245
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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	8	13	7
Chromium	ppm	ASTM D5185m	>4	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>9	2	3	2
Lead	ppm	ASTM D5185m	>30	2	6	<1
Copper	ppm	ASTM D5185m	>35	0	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
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	50	8	9	18
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	52	63	58
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	562	559	554
Calcium	ppm	ASTM D5185m	1510	1510	1571	1557
Phosphorus	ppm	ASTM D5185m	780	722	700	785
Zinc	ppm	ASTM D5185m	870	995	1031	936
Sulfur	ppm	ASTM D5185m	2040	2591	2659	2646
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	10	16	11
Sodium	ppm	ASTM D5185m		<u> </u>	<b>A</b> 295	<b>1</b> 93
Potassium	ppm	ASTM D5185m	>20	<mark>/</mark> 395	<b>6</b> 03	▲ 344
Potassium INFRA-RED	ppm	ASTM D5185m method	>20 limit/base	395 current	▲ 603 history1	▲ 344 history2
INFRA-RED	ppm %	method *ASTM D7844	limit/base			
		method	limit/base	current	history1	history2
INFRA-RED Soot %	%	method *ASTM D7844	limit/base	current 0	history1 0	history2 0
INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base	current 0 11.4	history1 0 11.3	history2 0 7.8
INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base	current 0 11.4 22.0	history1 0 11.3 22.7	history2 0 7.8 19.3

limit/base



# **OIL ANALYSIS REPORT**





n8/71

Feb22/18

Oct14/16

un13/22 un29/23

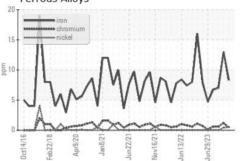
ov16/21

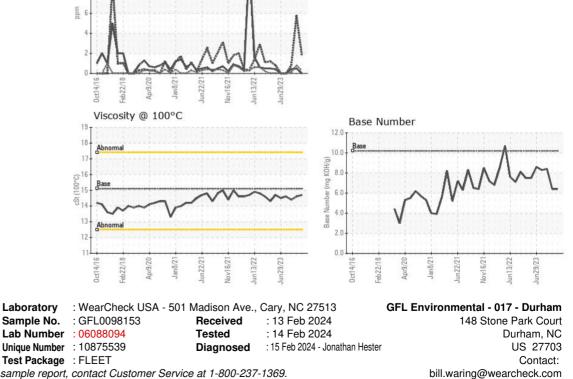
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.6	14.4
GRAPHS						

Ferrous Alloys

Non-ferrous Metals

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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)

Certificate L2367

T: (919)596-1363

F: (919)598-1852