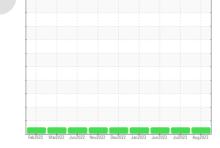


## **OIL ANALYSIS REPORT**

Sample Rating Trend





SAMPLE INFORMATION method limit/base current history1 history2



Machine Id 731117 Component

Natural Gas Engine

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

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

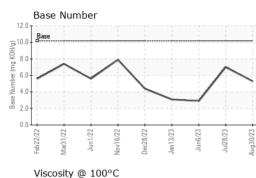
### Fluid Condition

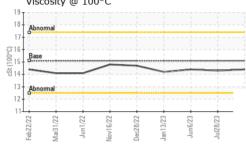
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		methou	iiiiii/base	current	mistory i	Thistory Z
Sample Number		Client Info		GFL0090691	GFL0087187	GFL0083734
Sample Date		Client Info		30 Aug 2023	28 Jul 2023	06 Jun 2023
Machine Age	hrs	Client Info		5062	4838	4680
Oil Age	hrs	Client Info		0	0	1200
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		13	10	34
Chromium	ppm	ASTM D5185m	>4	1	<1	2
Nickel	ppm	ASTM D5185m		<1	0	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	3	3
Lead	ppm	ASTM D5185m		3	4	23
Copper	ppm	ASTM D5185m		2	1	4
Tin	ppm	ASTM D5185m	>4	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	10 10 · · · ·		line it //e e e e		-	-
		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	50	14	28	8
Barium	ppm	ASTM D5185m	5	0	0	2
Molybdenum	ppm	ASTM D5185m	50	55	51	69
Manganese	ppm	ASTM D5185m		1	<1	2
Magnesium	ppm	ASTM D5185m	560	601	571	617
Calcium	ppm	ASTM D5185m	1510	1630	1543	1878
Phosphorus	ppm	ASTM D5185m	780	755	746	850
Zinc	ppm	ASTM D5185m	870	1001	913	1095
Sulfur	ppm	ASTM D5185m	2040	2898	2666	2824
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	4	6
Sodium	ppm	ASTM D5185m		8	6	5
Potassium	ppm	ASTM D5185m	>20	1	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.8	8.5	13.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	19.5	28.2
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	15.8	24.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.3	7.0	2.9
	ing itoning	10 m D2000	10.2	5.5	7.0	2.0

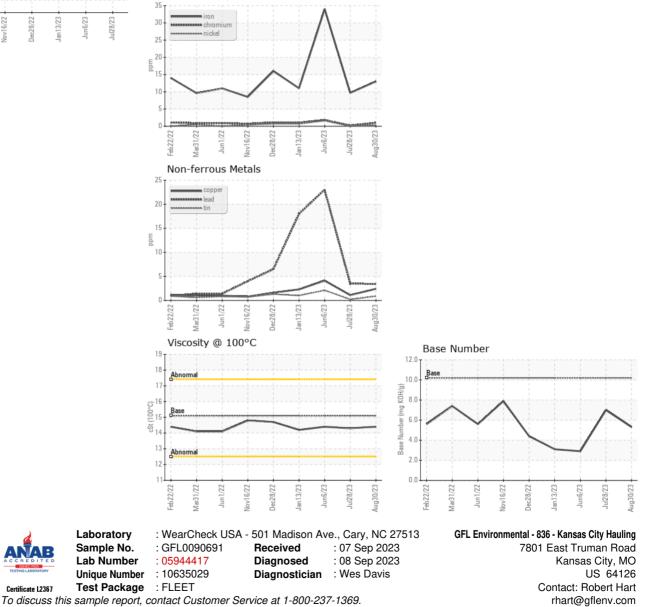


# **OIL ANALYSIS REPORT**





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
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	14.4	14.3	14.4
GRAPHS						
Ferrous Alloys						



\* - 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)



F:

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