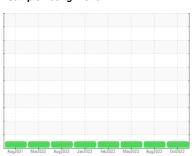


## **OIL ANALYSIS REPORT**

## Sample Rating Trend







426073-402407

Component **Diesel Engine** 

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

# 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.

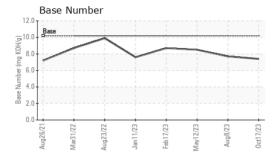
## **Fluid Condition**

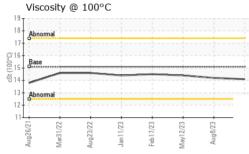
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Augzozi	1ar2022 Aug2022 Jan202	23 Feb 2023 May 2023 Aug 2023	Oct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0081109	GFL0081063	GFL0081074
Sample Date		Client Info		17 Oct 2023	08 Aug 2023	12 May 2023
Machine Age	hrs	Client Info		35720	35225	34885
Oil Age	hrs	Client Info		600	600	1200
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	10	11	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	3	<1
_ead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m		<1	<1	<1
Fin	ppm	ASTM D5185m	>15	0	<1	<1
√anadium	ppm	ASTM D5185m	710	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	20	23	24
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	48	51	48
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	560	488	487	535
Calcium	ppm	ASTM D5185m	1510	1424	1537	1563
		ASTM D5185m	780	715	762	767
Phosphorus Zinc	ppm	ASTM D5185m	870	883	924	933
zinc Sulfur	ppm					2595
	ppm	ASTM D5185m	2040	2558	2434	
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	3
Sodium	ppm	ASTM D5185m		2	2	3
Potassium	ppm	ASTM D5185m	>20	<1	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.2	1.4	1.4
Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.1	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	20.0	20.6
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
0 1 1 11	Abs/.1mm	*ASTM D7414	>25	15.8	15.3	15.3
Oxidation	ADS/.TITIIII	A311VI D7414	>25	13.0	13.3	15.5



## **OIL ANALYSIS REPORT**

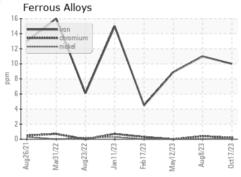


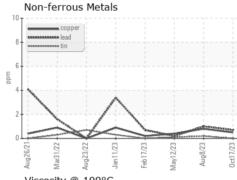


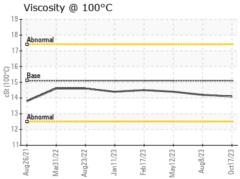
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

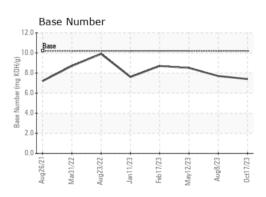
FLUID PROPE	KIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	14.1	14.2	14.4

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10700051

: GFL0081109 : 05982756

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Oct 2023 Diagnosed : 19 Oct 2023

Diagnostician : Wes Davis

GFL Environmental - 884 - Lake County - Tavares 321 Southridge Industrial Way

Tavares, FL US 32778

Contact: JEFF COOPERSMITH

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: