

OIL ANALYSIS REPORT

Sample Rating Trend

April021 Oct2021 Jun2022 Jun2023 Jun2023 Jun2023 Jun2024

NORMAL



948015-205260

Component

Natural Gas 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

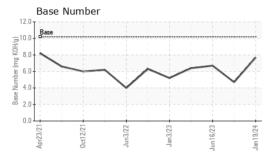
Fluid Condition

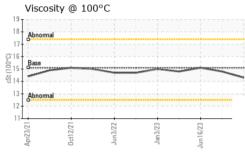
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(LTR)		Apr2021	Oct2021 Jun2022	Jan2023 Jun2023	Jan 2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0096046	GFL0071767	GFL0071737
Sample Date		Client Info		19 Jan 2024	11 Oct 2023	16 Jun 2023
Machine Age	mls	Client Info		124763	30776	14538
Oil Age	mls	Client Info		0	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	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	7	18	11
Chromium	ppm	ASTM D5185m	>4	<1	2	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	4	3
Lead	ppm	ASTM D5185m	>30	<1	4	0
Copper	ppm	ASTM D5185m	>35	<1	<u>44</u>	0
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	25	5	15
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	52	63	57
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	560	592	532	621
Calcium	ppm	ASTM D5185m	1510	1640	1565	1806
Phosphorus	ppm	ASTM D5185m	780	851	716	887
Zinc	ppm	ASTM D5185m	870	1045	992	1128
Sulfur	ppm	ASTM D5185m	2040	2658	2168	3291
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	8	4
Sodium	ppm	ASTM D5185m		6	△ 390	7
Potassium	ppm	ASTM D5185m	>20	5	4	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.2	11.7	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	22.6	21.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	19.4	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.7	4.7	6.7
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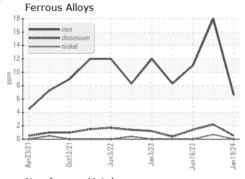


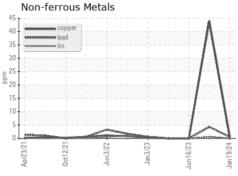


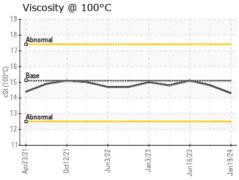
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

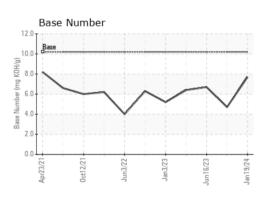
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	14.8	15.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10845624 Test Package : FLEET

: GFL0096046 : 06068947

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 23 Jan 2024

Diagnosed : 24 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 883 - Orange City

1378 South Volusia Ave Orange City, FL US 32763

T: (386)503-8468

Contact: JEFF COOPERSMITH JCOOPERSMITH@GFLENV.COM

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)